010

1991 ASSESSMENT REPORT

GEOLOGICAL AND GEOPHYSICAL SURVEYS

MACMURCHY PROJECT

MACMURCHY TOWNSHIP, ONTARIO

NTS: 41-P-11

W.O. Manson
Qual. - 2.7402
Inco Exploration and
Technical Services, Inc.
Copper Cliff, Ontario
October, 1991

October 29, 1991

List of Appendices

List of Figures

List of Maps

SUMMARY

The Macmurchy Project claim group was staked to protect an area in which previous work indicated potential for an economic gold deposit. Assays up to 181.72 g/t Au and 6.14 g/t Au/2.4 metres from grab and chip samples, respectively were reported. It was further noted that the area contained a varied sequence of volcanic rocks that could be favourable host rocks for massive sulphide base metal deposits.

The property consists of three (3) claims located in east-central Macmurchy Township, Ontario. The property is situated on NTS: 41-P-11, about 15.5 kilometres northeast of the village of Shiningtree, Ontario and is accessible from Provincial Highway 560.

Macmurchy Township is situated near the southwestern end of the Abitibi Subprovince. The Archean rocks consist of a volcanic-sedimentary sequence intruded by mafic to felsic plutons, sills and dikes.

During July and August, 1991, the property was gridded and geological, magnetometer, and electromagnetic surveys were completed.

The Macmurchy property is underlain by a sequence of tholeiitic basalt, calc-alkaline andesite, calc-alkaline rhyo-dacite and calc-alkaline rhyolite. The bedded rocks are cut by diabase dikes. The sampling program located anomalous gold values up to 1,290 ppb and anomalous copper values up to 790 ppm. None of the anomalous mineralization was associated with significant alteration or deformation features characteristic of a mineralizing event and the geochemistry of the rock units was not found to be favourable for an economic mineral (base metal) deposit.

The magnetometer survey agrees well with the mapped bedrock geology and was an aid in defining geological boundaries in overburden covered areas. The survey did not identify any anomalous features that might represent zones of mineralization. The electromagnetic survey identified a very weak (shear zone) conductor along the trend of a regional fault (Jess Lake Fault). No sulphide related conductive zones were located by the survey.

No further work is recommended at this time.

1.0 INTRODUCTION

A review of the general area indicated that parts of Macmurchy Township contained geological environments and historic mineral (gold and copper) occurrences that indicated the area could potentially host an economic mineral deposit. In April of 1990, three mining claims (L1146349, L1146354 and L1146359) were contract staked for Inco Ltd. During July and August, 1991, the property was gridded and ground surveys consisting of a geological survey, a magnetometer survey, and an electromagnetic survey were completed.

1.1 Location and Access

The property is situated in east-central Macmurchy Township, approximately 15.5 kilometres northeast of the village of Shiningtree, Ontario. Access to the property is via Provincial Highway 560 to the landing on Jess Lake and thence by boat to the property at the south end of Jess Lake. The property location is shown on the Macmurchy Project, Ontario Property Location Map, scale 1:250,000 (Figure 1).

1.2 Property

The property consists of 3 (three) contiguous unpatented mining claims owned 100% by Inco Limited, c/o Inco Exploration and Technical Services, Inc. (IETS), Highway 17 West, Copper Cliff, Ontario, P0M 1N0. The claim numbers are L1146349, L1146354 and L1146359, located in Macmurchy Township, Larder Lake Mining Division, District of Sudbury, Ontario. The location of each claim is shown on the Claim Location Map, 1:50,000 scale, NTS: 41-P-11 (Figure 2) and are listed in Appendix II.

2.0 HISTORY

1931: Prospected by Netherton who discovered a 0.7 metre wide quartz vein. The vein was traced over a length of 40 metres and was reported to contain "considerable fine gold". The location of this vein is not known.

1937: The area was examined by Erie Canadian Mines Ltd. for Big Divide Gold Mines Ltd. with unfavourable results.

1946-50: Macdean Mines Ltd. carried out geological mapping, trenching, stripping and sampling in the area around the present Inco claims. One grab sample from an unknown location on the Netherton Vein assayed 181.72 g/t gold and a chip sample from the North Vein (location of the vein is uncertain) assayed 6.14 g/t gold across 1.4 metres. Another shear zone of unknown location contained massive sections of chalcopyrite and bornite. A picked sample by Macdean Mines Ltd. assayed 26.6% copper. A fourth vein system is the Blacksmith Vein (cherty iron formation?) from which Macdean Mines Ltd. reported a best assay of 3.5 g/t gold across 0.6 metres (chip sample?).

1967-68: C.W. Burnet located a rusty and mineralized shear zone up to 3.7 metres wide containing chalcopyrite and malachite. A chip sample from this zone returned 0.31% copper.

1969: Madsen Red Lake Gold Mines Ltd. optioned the claims from C.W. Burnet and carried out magnetometer and ground EM surveys and completed 10 "Packsack" diamond drill holes totalling 169 metres. One of the holes (#8) tested an EM anomaly (?) and intersected a best gold value of 2.23 g/t over 1.4 metres with only traces of copper

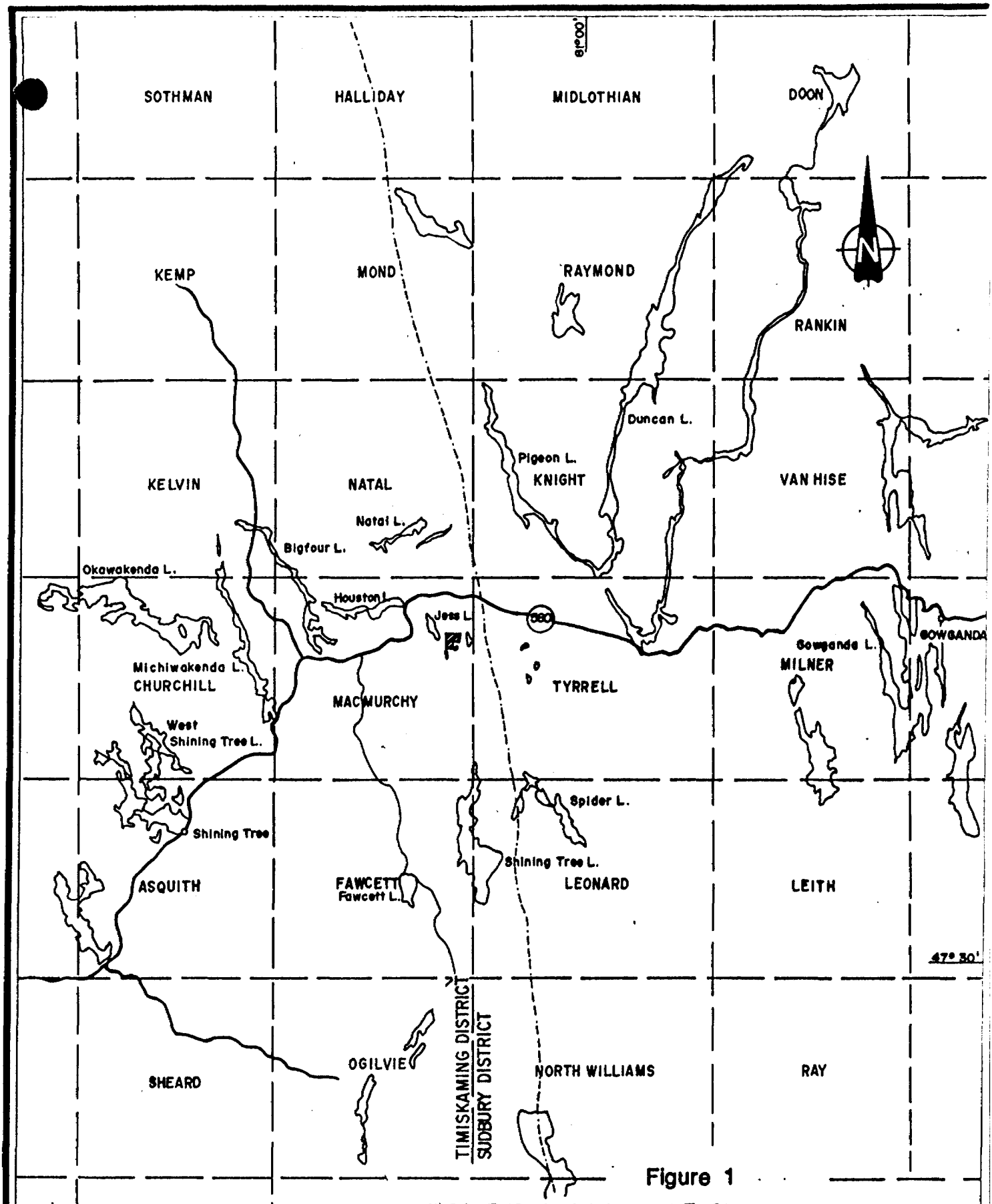


Figure 1

INCO EXPLORATION and TECHNICAL SERVICES INC.

MacMURCHY PROJECT

ONTARIO

Location Map

SCALE 1:250 000

APRIL 30/90

41 P

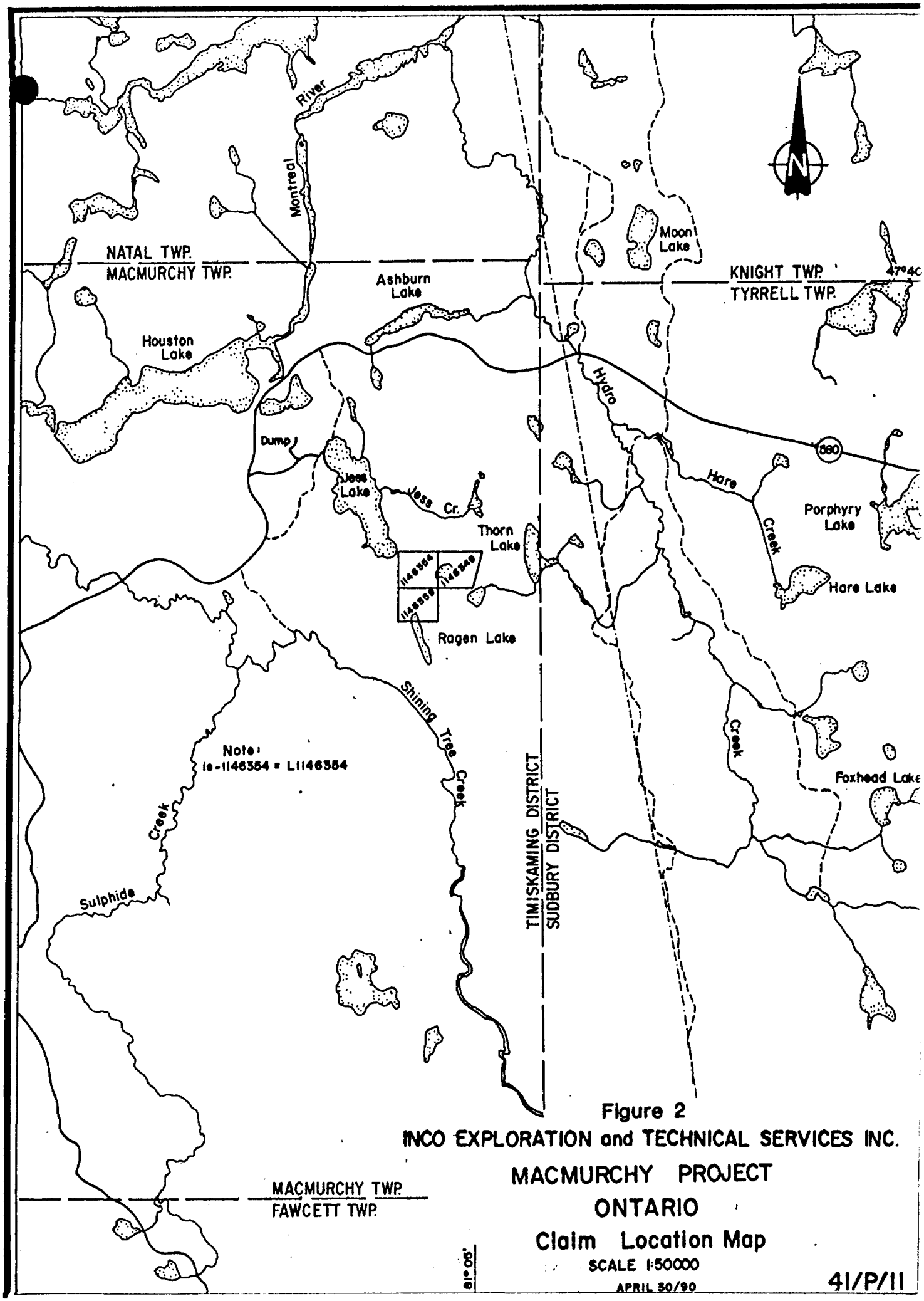


Figure 2

INCO EXPLORATION and TECHNICAL SERVICES INC.

MACMURCHY PROJECT

ONTARIO

Claim Location Map

SCALE 1:50000

APRIL 30/90

41/P/11

mineralization. Hole #6B was drilled on the "Blacksmith Vein" and obtained a best intersection of 0.5 g/t gold across 1.5 metres in rhyolite breccia. Hole #7, also on the "Blacksmith Vein", intersected 0.86 g/t gold over 1.8 metres and 6.17 g/t silver over 1.2 metres.

1971: C.W. Brunet carried out trenching and stripping in the area of the Inco claims. No results of sampling were reported.

1990: On April 3, 1990, the Government of Ontario released for staking some of the areas adjacent to Bear Island Land Caution and Inco Ltd. contract staked and recorded mineral claims L1146349, L1146354 and L1146359. A dispute was filed against the three claims.

1991: The claim dispute was resolved in favour of Inco Ltd.

Inco Ltd. carried out grid cutting, a magnetometer survey, an electromagnetic survey and a geological survey.

3.0 GRIDDING

During the period of July 24 to July 26, 1991, a grid was established over the claim group by line cutting. A 00 base line with an azimuth of 323° was cut and surveyed through the centre of the claims. Picket (section) lines were cut at right angles to the base line at 100 metre intervals. Picketed stations were established and marked as to coordinate every 25 metres along each picket line. All measurements were from the 00 base line. The base line and control lines were surveyed by transit and each section line angle was turned by transit. All of the measurements were made with a steel surveyor's chain and corrected for slope changes. Total line cutting was as follows: base line = 610 metres, control line = 565 metres, picket line = 4,528 metres, for a grand total of 5,703 metres (5.703 km).

The grid establishment was completed under contract by G.J. Gereghty of 10 Godfrey Street, Copper Cliff, Ontario P0M 1N0.

4.0 REGIONAL GEOLOGY

Macmurchy Township is situated near the southwestern end of the Abitibi Subprovince. The Archean rocks consist of a volcanic-sedimentary sequence intruded by mafic to felsic plutons, sills and dikes. The volcanic rocks consist of komatiitic, tholeiitic, calc-alkalic and alkalic flows and pyroclastics with interbedded clastic and chemical sediments. Early Proterozoic clastic sediments of the Cobalt Group occur as isolated outliers throughout the region. The local geology is described in Ontario Division of Mines Geoscience Report 152 and shown on accompanying Map 2365, Geology of Macmurchy and Tyrell Townships, Districts of Sudbury and Timiskaming by M. W. Carter, 1977. The distribution of the various lithologies on a more regional basis is best represented on the recently issued OGS Map 2543, Bedrock Geology of Ontario, East-Central Sheet, 1:1,000,000 scale .

5.0 PROPERTY GEOLOGY AND LITHO-GEOCHEMISTRY

5.1 General

During August 27 and 28, 1991, the property was geologically mapped and sampled by IETS personnel. A total of 50 rock samples was collected for reference and for analysis. All of the samples were submitted to Activation Laboratories Ltd. for INAA analysis of 30 elements and ICP analysis

of 18 elements. The analytical results are attached as Appendix IV. The field descriptions of the rock samples are included with this report as Appendix V. The results of the mapping program are shown on the Geological Survey Map 1:2,500 scale (in pocket) and are discussed below.

5.2 Geology

The bedrock geology observed on the property consists of an interbedded sequence of mafic and felsic volcanic rocks. The rocks were characterized utilizing the AFM plot of Irvine and Baragar (1971), included as Figure 3. Based on this plot the rocks were divided into tholeiitic basalt, calc-alkaline andesite, calc-alkaline rhyo-dacite and calc-alkaline rhyolite. These lithologic map units are described and tabulated (alpha-numeric) below.

5.2.1 Lithologic Map Units

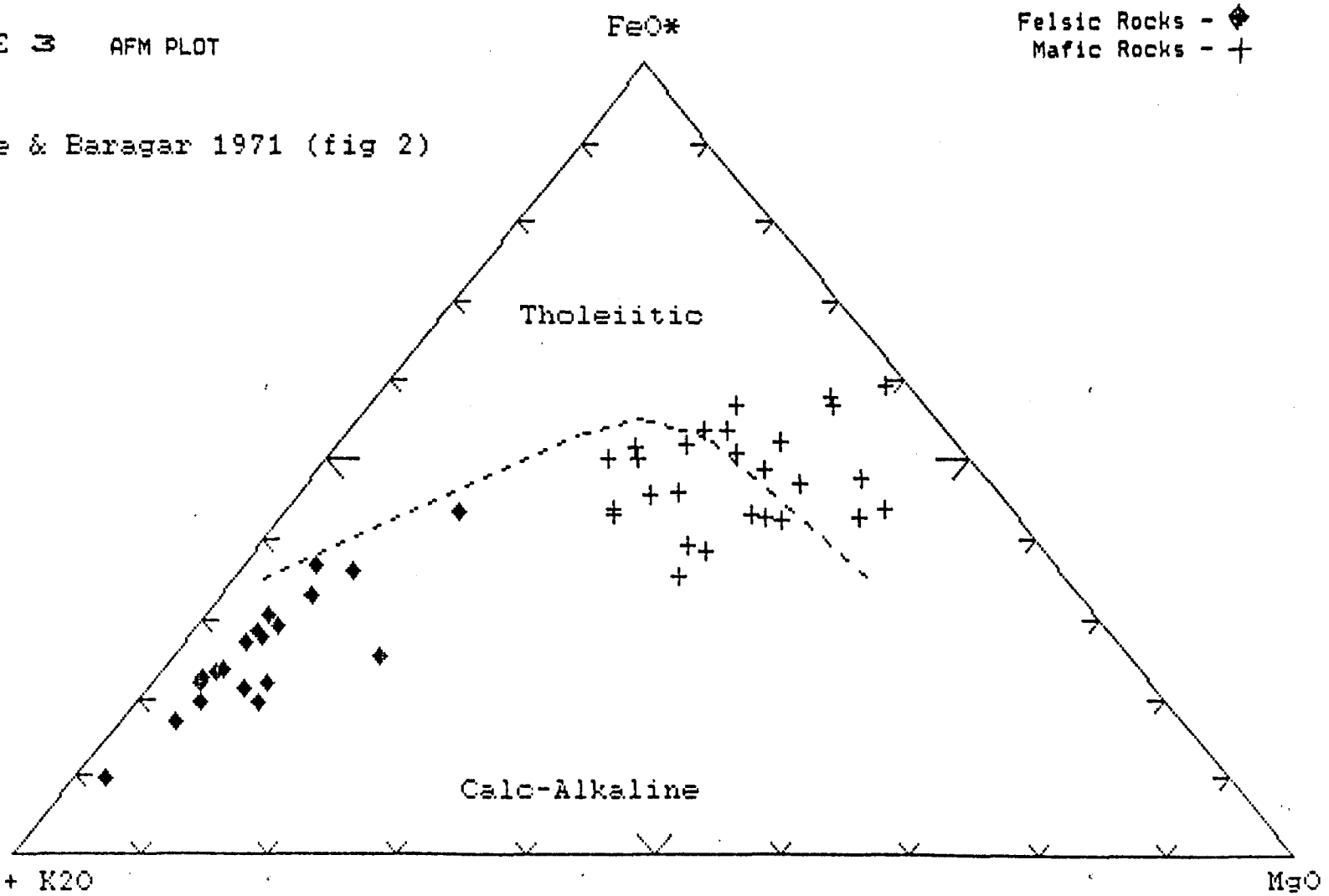
Map Code	Description
1.	Basalt, commonly massive, locally pillowed and flow brecciated. The unit is dark green, fine to medium grained, weathers brown or dark green and is massive to weakly porphyritic. In some places a weak foliation is represented as chloritic slips. Minor millimetre scale calcite veinlets are present along fractures along with local patches and stringers of epidote. Chemically the basalt has a magnesium tholeiite affinity.
2.	Andesite, commonly massive to weakly flow banded, and as autobrecciated flows. The unit is green and commonly weathers pale green to green. In some places the rock is weakly foliated to laminated with chlorite as a common component. This feature may represent a tuffaceous facies. Chemically the unit is a mafic to intermediate rock of calc-alkaline affinity.
3a.	Rhyolite, massive rubbly textured flows with some vague flow banding. The unit is light grey to locally very pale green, weathers to a light tan colour and is very fine grained to aphanitic. A few 1-2 millimetre feldspar phenocrysts and no quartz eyes were observed in hand samples. Some coarse flow breccia is present but is not common. In a few places the unit is weakly sheared and becomes somewhat sericitic. Chemically the unit is a felsic rock of calc-alkaline affinity.
3b.	Rhyo-Dacite, massive rubbly textured flows and flow breccia. Light grey to pale green, weathers tan with a slightly greenish hue. In those few places, where the unit is weakly sheared, sericite and pale green chlorite have developed. Chemically the unit is a felsic to intermediate rock of calc-alkaline affinity.
4.	Diabase, a porphyritic intrusive rock, dark green to black, weathers brown and is moderately magnetic. This unit is typical of the Matachewan diabase dike swarm and cuts all other units on the property.

5.2.2 Structure

The Jess Lake Fault, a regional scale, north-south trending structure, cuts the southwest corner of the property. The fault zone is not exposed, but sheared basalt along the east and west shores of Ragen Lake support the interpreted location as shown on OGS Map 2365. The axis of the fault lie beneath Ragen Lake and the swampy area off the north end of the lake. All of the units are essentially vertically dipping and northwest striking. Scattered pillows in the western basalt are

FIGURE 3 AFM PLOT

Irvine & Baragar 1971 (fig 2)



northeast facing. No facing criteria were observed in the intermediate or felsic flows. The OGS Map 2365 indicates an antiform axis approximately through the area of the rhyolite unit (3a), however, no outcrop was observed on the property to support this interpretation.

Weak to moderate shearing is locally observed in all units over widths of a few centimetres, and up to 1 or 2 metres in the area of the old trench at 600S-490E.

5.2.3 Alteration

All of the rock units contain alteration minerals and structures such as moderate uralitization and saussuritization that are consistent with regional greenschist metamorphism. Locally, zones of moderate to strong shearing gives rise to narrow bands of sericite schist in the felsic units and to chlorite schist in the mafic units. No features, such as iron carbonatization, silica flooding, or intense shearing indicative of a mineralizing hydrothermal alteration event were observed in the outcrops on the property.

5.2.4 Mineralization

Anomalous gold values of 552 ppb and 1,290 ppb were detected in samples RX109916 and RX109917, respectively. These samples are located along the north boundary of claim L1146354. The samples are weakly pyritic (trace to 1%) rhyolite that, in the case of RX109917 also contain occasional stringers of quartz-carbonate. Old prospect pits are reported in this area, however, these pits could not be located in the field. None of the other samples collected from the property contained significantly anomalous gold values. The "Blacksmith Vein" and the "North Vein" could not be located in the field. Previous work, on claim L1146349, by Madsen Red Lake Gold Mines located a best intersection of 2.23 g/t gold over 1.4 metres in hole # 8. This area is overburden covered and could not be sampled at surface.

Sample RX109913, a rhyolite flow breccia, contained 790 ppm copper. The sample contained only minor amounts of sulphide. No other samples collected from the property contained significantly anomalous base metal values.

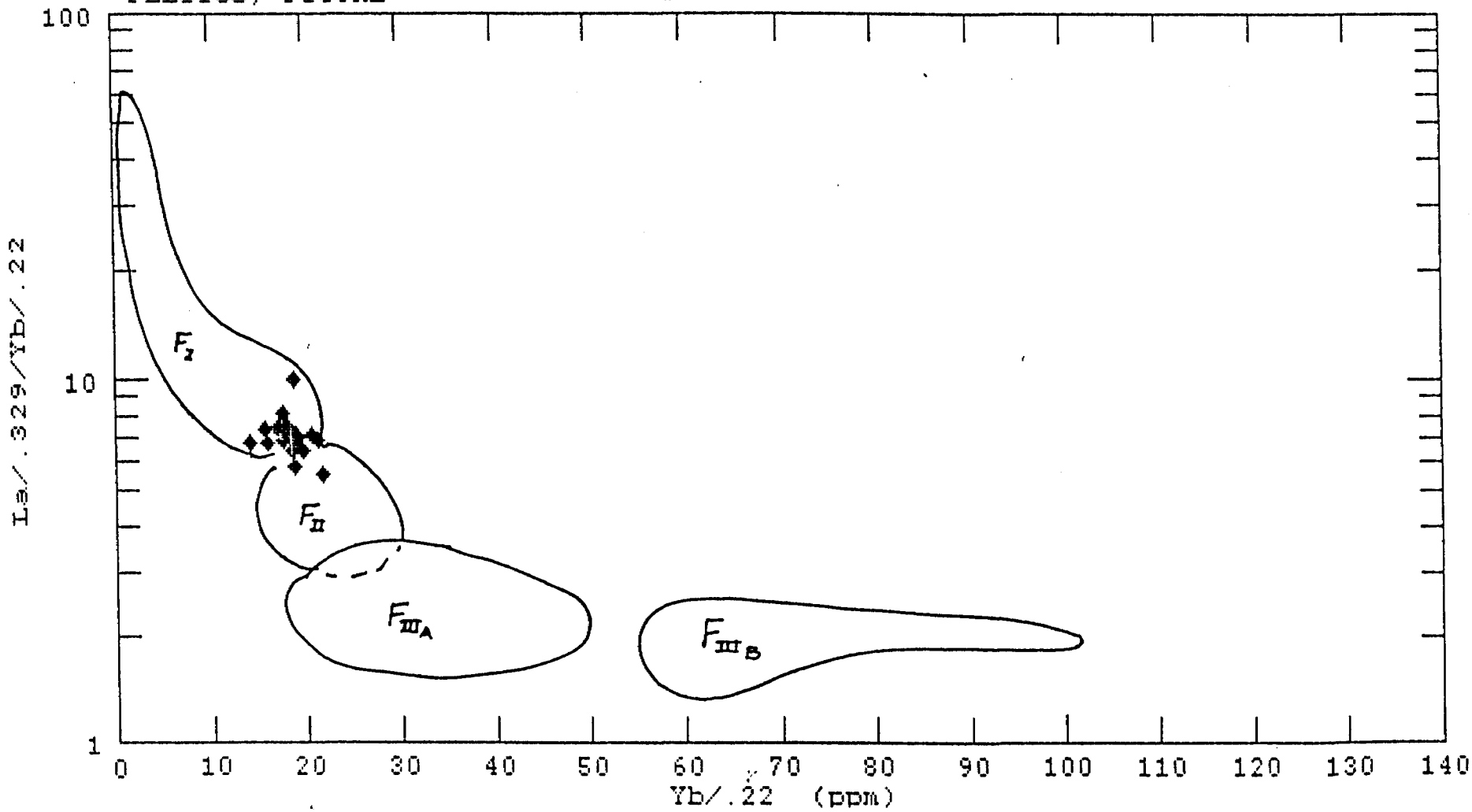
5.3 Litho-Geochemistry

To determine if the rhyolite and rhyo-dacite rocks on the property are geochemically favourable as potential host rocks for Volcanogenic Massive Sulphide (VMS) base metal (Cu-Zn) deposits a ratio plot of La/Yb_n vs. Yb_n was produced. The plot is included as Figure 4. The felsic volcanic rocks all plot within the F_1 field and are, therefore, not considered a potentially favourable host rock for VMS deposits.

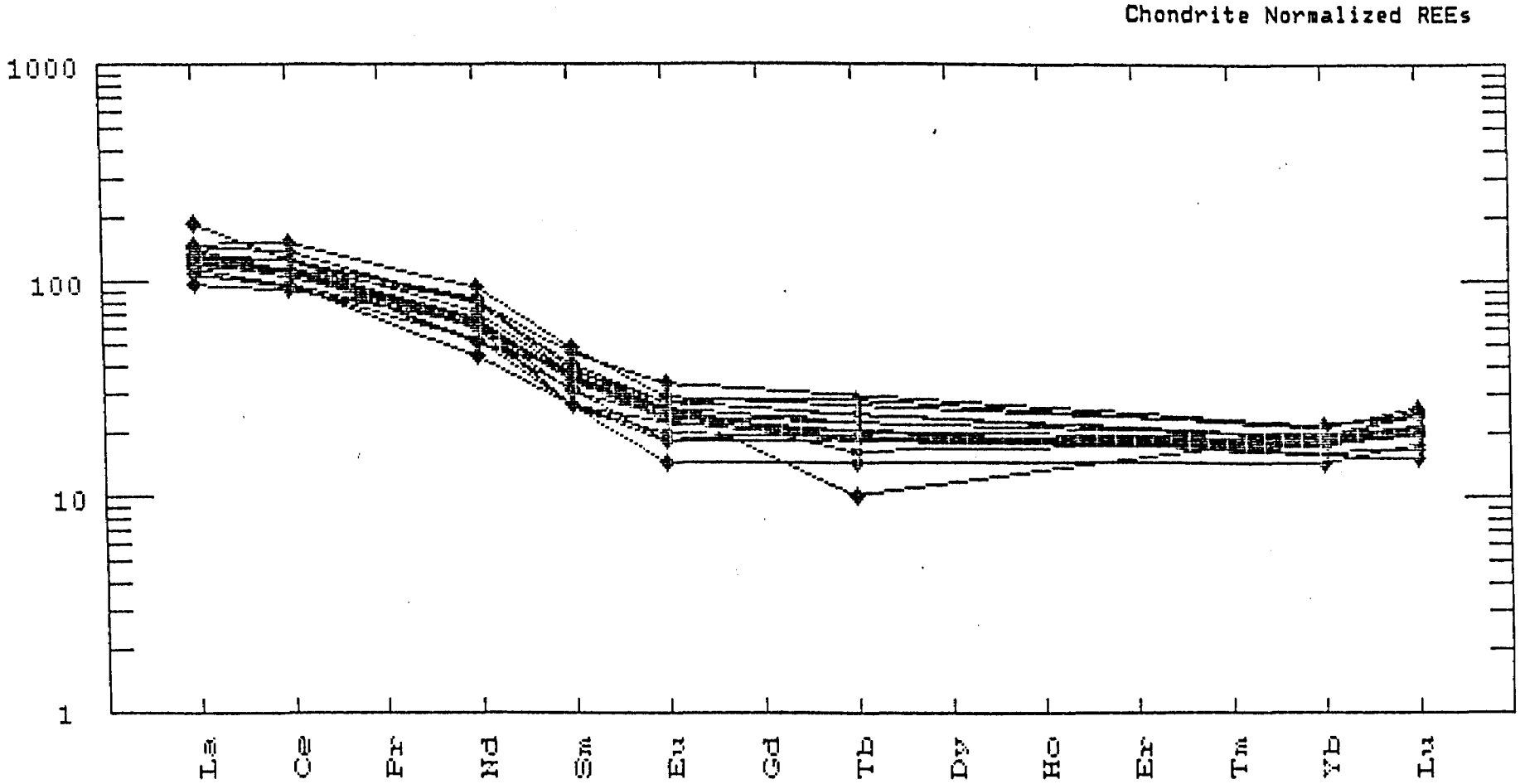
To further evaluate the rhyolite and rhyo-dacite rocks the Rare Earth Elements (REEs) were plotted as spider plots, Figure 5, of the REEs. These plots were compared to examples from known areas and were found to be comparable to plots from areas known to be unfavourable (no economic deposits) to host VMS deposits.

The tholeiitic basalts were plotted on a Ni vs. MgO ratio plot, Figure 6, to evaluate the potential to host nickel sulphide mineralization on the basis of sulphur saturation. The plot indicates that these rocks are not saturated with respect to sulphur and are, therefore, not favourable as potential hosts for nickel sulphide deposits.

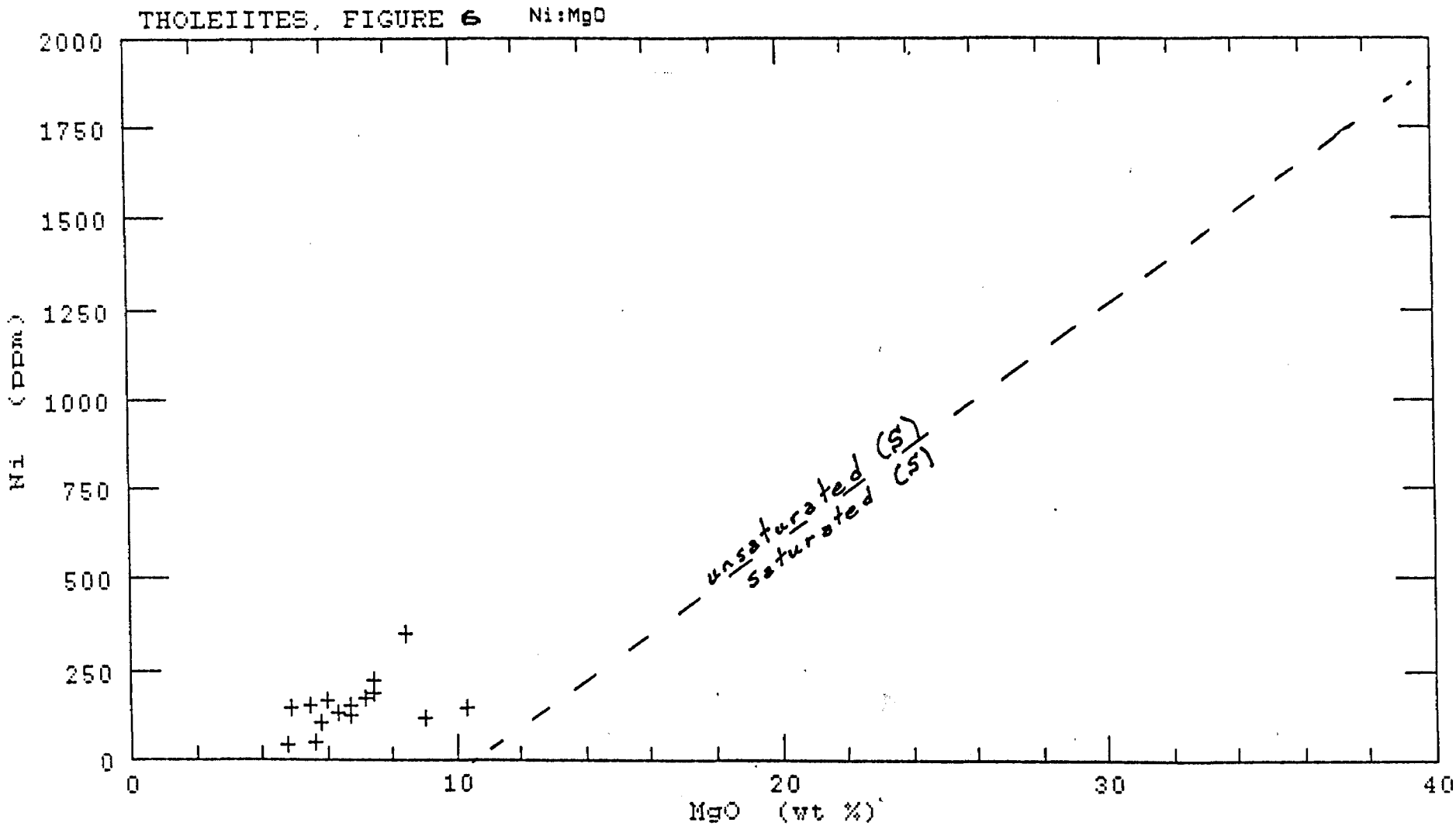
FELSICS, FIGURE 4 $(La/Yb)_n : (Yb)_n$



FELSIC ROCKS, FIGURE 5 Rare Earth Elements Spider Plot



after Lesher et al.


THOLEIITES, FIGURE 6 Ni:MgO
2000
1750
1500
1250
1000
750
500
250
0
Ni (ppm)
0
10
20
30
40
MgO (wt %)
unsaturated (S)
saturated (S)

6.0 GEOPHYSICS

6.1 General

The magnetometer and electromagnetic surveys were carried out by G.J. Gereghty of 10 Godfrey Street, Copper Cliff, Ontario, assisted by T. Lang of 37-A Serpentine, Copper Cliff, Ontario, both independent geophysical operators. The equipment was supplied by Inco Exploration and Technical Services, Inc. The geophysical surveys were evaluated and interpreted by E.K. Berrer of the Inco Exploration and Technical Services, Inc. geophysical staff and are incorporated in this report as sections 6.2 Magnetometer Survey, 6.3 Electromagnetic Survey, and 6.4 Results of the Geophysical Surveys.

6.2 Magnetometer Survey

The magnetometer survey was carried out on July 27, 1991, utilizing a Proton Magnetometer Model G-816 manufactured by Geometrics of Sunnyvale, California, U.S.A. A total of 347 magnetometer readings were taken at intervals of 12.5 metres along the grid lines. To check for diurnal variations the operator took repeated readings at base stations along the baseline. The field readings were corrected for these diurnal variations of the earths magnetic field. The results of the magnetometer survey are shown on the Magnetometer Survey Map, 1:2,500 scale (in pockets) and are discussed below (section 6.4). The instrument specifications supplied by the manufacturer are included as Appendix VI of this report.

6.3 Electromagnetic Survey

The electromagnetic survey was carried out on July 28, 1991, utilizing a MaxMin II horizontal loop instrument manufactured by Apex Parametrics Ltd. of Uxbridge, Ontario. A total of 159 electromagnetic readings were taken at 25 metre station intervals along the grid lines. In phase and out of phase readings were taken at frequencies of 888 Hz, 1777 Hz and at 3555 Hz utilizing a coil separation of 100 metres. Slope measurements between the stations were taken to correct the in phase readings for variation in the horizontal distance of the receiver to the transmitter along the lines. The results of the electromagnetic survey are shown on the Electromagnetic Survey Map, 1:2,500 scale (in pockets) and are discussed below (section 6.4). The instrument specifications supplied by the manufacturer are included as Appendix VII of this report.

6.4 Results of the Geophysical Surveys

The magnetometer survey generally agrees well with the mapped bedrock geology. It outlines the location of the magnetic dike (diabase) striking in a north south direction with a high of, in places, more than 1,000 nT. To the west of the dike the level of the magnetic readings is 200 nT higher than to the east, indicating the mafic volcanics (basalt). The lower magnetic level east of the dike indicates the intermediate to felsic volcanics (andesite/rhyolite). The eastern part of the claim group is underlain by intermediate to felsic volcanics intermixed with some mafic volcanics as shown by the occasional magnetic high in the range of 200 to 300 nT.

The electromagnetic survey (horizontal loop) outlined a very weak electromagnetic conductor near the western boundary of the claim group. The very low conductivity indicates an overburden trough and possibly an underlying fault or shear zone. The consists almost solely of out of phase. The electromagnetic survey does not indicate any sulphide conductors.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The various geological, magnetometer and electromagnetic surveys successfully identified and confirmed the characteristics of the bedrock geology of the property. The geological sampling program located anomalous gold values of 552 and 1,290 ppb (samples RX109916 and RX109917, respectively) along the north boundary of claim L1146354 and an anomalous copper value of 790 ppm (sample RX109913) on claim L1146349. The gold values were not hosted in significantly altered or deformed rocks. The copper anomaly is located in a very weakly mineralized rhyolite breccia with no observed alteration features. The REE geochemistry of this rhyolite indicates that it is not a favourable host for volcanogenic massive sulphide deposits. No other rock samples were significantly anomalous in gold or base metal values. The Ni vs. MgO plot of the tholeiitic basalts indicate that these rocks are sulphur undersaturated and are not favourable hosts for massive sulphide Ni deposits. The geophysical survey results confirm the location of the interpreted Jess Lake Fault and support the geological/lithological interpretation. These surveys do not indicate any other structural features nor do they indicate any potential zones of unexposed sulphide mineralization.

The geological (geochemical) and geophysical evidence obtained from the surveys completed by Inco Exploration and Technical Services, Inc. did not identify any potentially economic targets for further exploration. No further work is recommended at this time.

8.0 BIBLIOGRAPHY

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1977: Geology of Macmurchy and Tyrell Townships, Districts of Sudbury and Timiskaming; Ontario Division of Mines, GR 152, 69 p. Accompanied by Map 2365, scale 1:31,680 or 1 inch to ½ mile.

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MNDM.
Various Assessment Reports; Resident Geologist's Files, Ontario Ministry of Northern Development and Mines, Kirkland Lake, Ontario.

Ontario Geological Survey
1991: Bedrock Geology of Ontario, East-central Sheet; OGS Map 2543, Scale 1:1,000,000.

APPENDIX I

CERTIFICATE OF QUALIFICATIONS

Certificate of Qualifications

I, Wayne O. Manson, of the City of Sudbury, In the Province of Ontario,

HEREBY CERTIFY:

1. That I reside at 19 Market Street, Copper Cliff, Ontario, P0M 1N0.

2. That I am a graduate of the University of Saskatchewan, Saskatoon, Saskatchewan, with a degree of Bachelor of Science (Advanced) (1974).

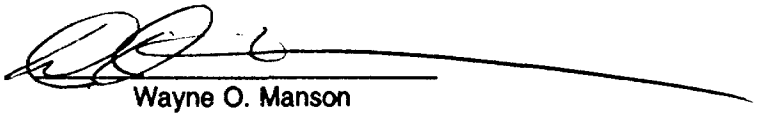
3. That I am an Area Geologist with Inco Exploration and Technical Services, Inc., (a unit of Inco Limited) at Copper Cliff, Ontario, P0M 1N0.

4. That I have practised my profession since 1974, having worked in Nova Scotia, Quebec, Ontario, Saskatchewan, British Columbia, the Northwest Territories and the Yukon Territory.

5. That I am the author of the attached report and that it is based on field work conducted under my supervision during August, 1991.

6. That I am a member of the Canadian Institute of Mining and Metallurgy.

Dated at Copper Cliff, Ontario, this 17th day of October, 1991.



Wayne O. Manson

APPENDIX II

LIST OF CLAIMS

List of Claims

Claim Number(s)	# of Claims	Township	Date Recorded	Owner
L1146349	1	Macmurchy	April 3, 1990	Inco Ltd.
L1146354	1	Macmurchy	April 3, 1990	Inco Ltd.
L1146359	1	Macmurchy	April 3, 1990	Inco Ltd.
Total Claims:	3			

APPENDIX III

LIST OF PERSONNEL

List of Personnel

Name	Occupation	Address
W.O. Manson	Geologist	19 Market St., Copper Cliff, Ont., P0M 1N0
R. Clark	Geologist	RR #1, Worthington, Ont., P0M 3H0
E.K. Berrer	Geophysicist	309 Edgewater Dr. Sudbury, Ont. P3E 4M9
C. Laamanen	Geological Asst.	2505 Field St., Sudbury, Ont., P3E 4X8
W. Marsaw	Draughtsman	1699 Virginia Dr., Sudbury, Ont., P3E 4T7
D. Walsh	Draughtsman	Calford St., Naughton, Ont., P0M 2E0

APPENDIX IV

ASSAY RESULTS

ACTLABS
ACTIVATION LABORATORIES LTD

Invoice No.: 3120
Work Order: 3126
Invoice Date: 16-SEP-91
Date Submitted: 5-SEP-91
Your Reference: 60346-52020
Account Number: 79

[redacted]CO EXPLORATION-COPPER CLIFF
FIELD EXPLORATION BUILDING
HIGHWAY 17 WEST
[redacted]PPER CLIFF, ONT
[redacted]M 1NO
ATTN: RANDY DUTCHBURN

CERTIFICATE OF ANALYSIS

[redacted]AA package, elements and detection limits:

[redacted]U	5.	PPB	AS	2.	PPM	BA	100.	PPM	BR	1.	PPM
[redacted]O	5.	PPM	CR	10.	PPM	CS	2.	PPM	FE	0.02	%
HF	0.5	PPM	HG	1.	PPM	IR	5.	PPB	MO	5.	PPM
NA	500.	PPM	RB	30.	PPM	SB	0.2	PPM	SC	0.1	PPM
[redacted]E	5.	PPM	SN	0.01	%	TA	1.	PPM	TH	0.5	PPM
[redacted]	0.5	PPM	W	4.	PPM	LA	1.	PPM	CE	3.	PPM
ND	5.	PPM	SM	0.1	PPM	EU	0.2	PPM	TB	0.5	PPM
[redacted]B	0.05	PPM	LU	0.05	PPM						

REPORT 3120B : TOTAL DIGESTION - ICP.

CERTIFIED BY :

DR. ERIC [redacted]. HOFFMAN

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 416-648-9611 • FAX: 416-648-9613

Activation Laboratories Ltd. Work Order: 3126 Report: 3120

Sample description	AU PPB	AS PPM	BA PPM	BR PPM	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	RB PPM	SB PPM	SC PPM	SE PPM	SN %	TA PPM	TH PPM	U PPM
RX 109901	<5	31	<100	<1	48	240	<2	5.58	1.9	<1	<5	<5	35200	<30	0.5	38	<5	<0.01	<1	<0.5	1.3
RX 109902	<5	57	290	<1	44	250	3	5.30	1.2	<1	<5	<5	2510	68	2.3	37	<5	<0.01	<1	<0.5	<0.5
RX 109903	9	8	240	<1	<5	120	4	1.06	7.9	<1	<5	<5	3540	130	1.2	6.1	<5	<0.01	<1	6.3	1.3
RX 109904	<5	7	290	<1	<5	120	<2	0.58	6.9	<1	<5	<5	42400	<30	0.3	6.1	<5	<0.02	3	5.1	2.4
RX 109905	27	17	430	2	7	180	2	1.00	7.3	<1	<5	<5	15400	34	0.7	6.9	<5	<0.01	<1	5.7	2.2
RX 109906	11	5	<100	<1	46	260	<2	6.22	1.8	<1	<5	<5	18800	<30	<0.2	37	<5	<0.02	<1	<0.5	<0.5
RX 109907	<5	4	<100	<1	47	250	<2	8.49	1.8	<1	<5	<5	25000	<30	0.6	38	<5	<0.02	<1	<0.5	<0.5
RX 109908	14	5	180	<1	45	250	<2	6.44	<0.5	<1	<5	<5	29400	<30	<0.2	39	<5	<0.01	<1	<0.5	<0.5
RX 109909	<5	35	520	<1	38	540	3	6.27	2.5	<1	<5	<5	17300	46	0.7	26	<5	<0.02	<1	2.0	<0.5
RX 109910	5	20	220	<1	<5	96	4	1.46	6.7	<1	<5	<5	11400	100	0.4	5.0	<5	<0.01	<1	4.5	<0.5
RX 109911	7	19	430	<1	29	250	<2	4.62	2.6	<1	<5	<5	29800	52	1.1	28	<5	<0.03	<1	2.1	<0.5
RX 109912	<5	44	<100	<1	39	980	2	6.19	1.9	<1	<5	<5	7110	43	0.4	23	<5	<0.01	<1	2.3	<0.5
RX 109913	<5	4	<100	<1	<5	130	3	1.10	8.4	<1	<5	7	36600	<30	0.7	5.9	<5	<0.02	<1	4.6	<0.5
RX 109914	<5	3	<100	<1	<5	76	3	1.80	7.8	<1	<5	<5	19700	55	0.6	6.5	<5	<0.01	3	5.8	<0.5
RX 109915	13	5	170	<1	40	240	3	7.49	1.2	<1	<5	<5	16300	<30	0.3	34	<5	<0.02	<1	<0.5	<0.5
RX 109916	552	92	410	<1	<5	150	3	1.98	9.5	<1	<5	<5	10300	75	1.8	7.0	<5	<0.01	1	5.8	1.7
RX 109917	1290	100	440	<1	<5	120	<2	1.44	8.5	<1	<5	<5	21800	92	1.2	6.1	<5	<0.01	<1	5.4	2.4
RX 109918	<5	20	<100	<1	36	160	<2	8.62	1.6	<1	<5	<5	3490	37	0.9	36	<5	<0.01	<1	<0.5	<0.5
RX 109919	25	12	470	2	<5	91	2	2.22	7.1	<1	<5	<5	12300	97	1.2	5.9	<5	<0.01	2	5.6	1.7
RX 109920	48	44	280	2	13	110	5	2.59	5.9	<1	<5	<5	1920	49	2.3	6.9	<5	<0.01	<1	5.2	1.2
RX 109921	5	25	330	<1	<5	66	3	2.70	7.7	<1	<5	<5	19900	73	1.1	6.2	<5	<0.01	<1	5.1	2.1
RX 109922	<5	15	220	<1	<5	97	3	1.74	6.6	<1	<5	<5	17300	72	0.8	5.4	<5	<0.01	2	4.9	1.3
RX 109923	7	18	280	<1	<5	79	<2	1.57	7.6	<1	<5	<5	16100	56	0.8	5.6	<5	<0.01	<1	5.5	2.6
RX 109924	12	16	360	<1	<5	78	<2	1.22	9.0	<1	<5	<5	21600	73	1.1	7.3	<5	<0.01	<1	6.2	3.0
RX 109925	6	6	280	<1	<5	81	3	0.99	8.0	<1	<5	<5	4150	71	0.9	6.1	<5	<0.01	<1	5.5	2.1
RX 109926	7	25	270	<1	8	150	4	5.09	5.7	<1	<5	<5	2590	33	1.0	5.0	<5	0.05	<1	4.2	1.2
RX 109927	9	3	370	<1	<5	140	2	1.47	7.5	<1	<5	<5	14000	71	0.6	5.6	<5	<0.01	<1	5.5	1.4
RX 109928	<5	5	300	<1	<5	80	3	1.30	9.4	<1	<5	<5	13500	76	0.8	6.8	<5	<0.01	<1	6.0	<0.5
RX 109929	<5	3	360	<1	<5	130	<2	1.38	8.6	<1	<5	<5	22700	64	0.8	6.5	<5	<0.01	<1	5.6	2.3
RX 109930	<5	9	210	<1	42	260	3	5.49	1.3	<1	<5	<5	30200	50	0.4	39	<5	<0.01	<1	1.0	<0.5
RX 109931	6	<2	260	<1	<5	94	<2	1.35	7.2	<1	<5	<5	21700	65	0.4	6.1	<5	<0.01	<1	5.9	1.5
RX 109932	<5	7	240	<1	47	260	<2	6.08	1.7	<1	<5	<5	16400	<30	0.3	40	<5	<0.01	<1	<0.5	<0.5
RX 109933	8	7	370	<1	<5	92	3	1.63	8.0	<1	<5	<5	10600	46	0.9	6.2	<5	<0.01	<1	4.8	2.7
RX 109934	<5	4	<100	<1	<5	330	<2	0.42	1.0	<1	<5	<5	1760	<30	0.5	1.0	<5	<0.01	<1	0.9	0.6
RX 109935	<5	6	290	<1	43	250	3	5.00	1.8	<1	<5	<5	775	85	0.9	40	<5	<0.01	<1	0.7	<0.5

Activation Laboratories Ltd. Work Order: 3126 Report: 3120

Sample description	AU PPB	AS PPM	BA PPM	BR PPM	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	RB PPM	SB PPM	SC PPM	SE PPM	SN %	TA PPM	TH PPM	U PPM
RX 109936	<5	12	<100	<1	40	260	<2	4.88	1.6	<1	<5	<5	22300	40	<0.2	36	<5	<0.01	<1	<0.5	<0.5
RX 109937	<5	3	<100	<1	47	260	<2	7.11	1.3	<1	<5	<5	17700	<30	<0.2	41	<5	<0.01	<1	<0.5	<0.5
RX 109938	<5	8	<100	2	40	230	<2	6.13	1.4	<1	<5	<5	23200	52	0.5	37	<5	<0.01	<1	<0.5	1.4
RX 109939	<5	7	<100	<1	41	230	<2	6.60	1.3	<1	<5	<5	24600	81	1.1	37	<5	<0.01	<1	<0.5	<0.5
RX 109940	<5	23	<100	1	44	220	<2	5.66	1.9	<1	<5	<5	34400	<30	<0.2	39	<5	<0.01	<1	1.0	<0.5
RX 159491	<5	19	130	<1	28	100	<2	5.85	<0.5	<1	<5	<5	5840	<30	0.9	22	<5	<0.01	<1	<0.5	<0.5
RX 159492	<5	9	<100	<1	28	62	2	6.59	1.5	<1	<5	<5	663	49	1.0	32	<5	<0.01	<1	<0.5	<0.5
RX 159493	<5	<2	<100	<1	37	160	<2	7.86	1.4	<1	<5	<5	11900	<30	<0.2	35	<5	<0.01	<1	<0.5	<0.5
RX 159494	27	45	<100	<1	41	210	<2	6.00	1.5	<1	<5	<5	18800	<30	0.6	29	<5	<0.01	<1	<0.5	<0.5
RX 159495	10	4	380	<1	39	240	<2	5.50	1.4	<1	<5	<5	31100	35	0.6	35	<5	<0.01	<1	<0.5	<0.5
RX 159496	32	13	270	<1	40	240	<2	7.59	1.0	<1	<5	<5	5800	61	1.3	40	<5	<0.01	<1	<0.5	<0.5
RX 159497	12	20	<100	<1	38	250	<2	5.67	0.9	<1	<5	<5	30300	<30	0.6	37	<5	<0.01	<1	<0.5	<0.5
RX 159498	<5	17	<100	<1	39	250	<2	7.63	1.3	<1	<5	<5	16600	<30	0.5	38	<5	<0.01	<1	<0.5	<0.5
RX 159499	<5	7	<100	2	12	150	<2	2.63	1.7	<1	<5	15	2350	<30	0.2	12	<5	<0.01	<1	1.2	<0.5
RX 159500	<5	4	<100	<1	35	160	<2	7.16	1.8	<1	<5	<5	35500	<30	2.0	40	<5	<0.02	<1	<0.5	<0.5

Sample description	W PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
RX 109901	<4	3	9	6	1.6	0.8	<0.5	2.22	0.37	32.12
RX 109902	<4	2	6	<5	1.4	0.7	<0.5	2.40	0.42	26.83
RX 109903	<4	36	84	39	6.3	1.8	0.9	4.13	0.67	27.06
RX 109904	<4	39	97	43	7.1	1.7	1.2	4.08	0.67	20.16
RX 109905	<4	47	97	34	5.4	1.5	<0.5	3.90	0.67	19.95
RX 109906	<4	3	8	<5	1.6	1.0	<0.5	2.58	0.42	30.33
RX 109907	<4	3	8	5	1.6	0.7	<0.5	2.39	0.40	31.71
RX 109908	<4	3	11	<5	1.7	0.7	2.9	2.33	0.41	32.41
RX 109909	<4	22	51	23	4.2	1.5	0.6	2.20	0.35	28.29
RX 109910	<4	36	82	34	6.4	1.4	1.0	3.55	0.56	27.31
RX 109911	<4	28	59	26	4.4	1.4	<0.5	2.01	0.32	29.73
RX 109912	<4	23	55	23	3.7	1.0	<0.5	1.74	0.35	24.61
RX 109913	<4	44	96	38	7.5	2.0	0.9	3.96	0.67	23.60
RX 109914	<4	40	100	51	9.3	2.6	<0.5	4.78	0.79	20.50
RX 109915	<4	3	12	6	1.5	0.4	0.9	2.33	0.40	30.41
RX 109916	<4	42	97	42	7.1	2.0	0.9	4.35	0.68	20.17
RX 109917	<4	42	91	41	7.3	2.0	0.5	4.20	0.65	20.82
RX 109918	<4	4	10	8	1.9	0.6	<0.5	2.82	0.42	29.50
RX 109919	<4	62	110	38	5.4	1.4	<0.5	4.13	0.66	23.22
RX 109920	<4	38	83	28	5.4	1.7	<0.5	3.47	0.51	22.77
RX 109921	<4	42	96	33	7.9	2.0	0.9	3.91	0.64	21.41
RX 109922	<4	40	92	39	7.1	1.9	0.8	3.87	0.66	22.44
RX 109923	<4	42	99	42	7.2	1.7	0.9	3.79	0.70	20.23
RX 109924	<4	48	130	60	10	2.2	1.3	4.70	0.83	21.53
RX 109925	<4	43	100	43	7.1	1.8	1.0	4.05	0.71	22.27
RX 109926	<4	32	80	40	5.4	1.1	0.7	3.15	0.59	21.99
RX 109927	<4	41	100	39	7.5	1.9	0.9	3.82	0.69	22.14
RX 109928	<4	48	120	50	8.3	2.1	1.4	4.54	0.88	21.92
RX 109929	<4	44	110	53	7.9	2.1	1.2	4.16	0.85	21.98
RX 109930	<4	3	9	<5	1.7	0.7	<0.5	1.94	0.15	31.80
RX 109931	<4	44	110	45	7.4	2.0	1.1	4.21	0.74	25.21
RX 109932	<4	4	10	<5	1.7	0.7	<0.5	2.53	0.42	32.01
RX 109933	<4	43	110	52	7.5	1.8	<0.5	4.17	0.79	19.96
RX 109934	<4	10	24	14	1.8	0.3	<0.5	0.56	0.13	25.52
RX 109935	<4	3	11	<5	1.5	0.6	0.6	2.48	0.41	28.68

Sample description	W PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
RX 109936	<4	3	10	8	1.7	0.6	<0.5	2.08	0.38	29.69
RX 109937	<4	4	10	6	1.7	0.7	<0.5	2.77	0.49	30.86
RX 109938	<4	3	9	8	1.5	0.6	<0.5	2.13	0.45	29.62
RX 109939	<4	2	7	6	1.5	0.7	<0.5	2.09	0.40	28.31
RX 109940	<4	3	10	<5	1.7	0.8	<0.5	2.36	0.43	30.93
RX 159491	<4	2	8	<5	1.4	0.8	<0.5	1.75	0.36	26.50
RX 159492	<4	4	11	7	2.0	0.7	<0.5	2.83	0.46	29.04
RX 159493	<4	4	10	6	1.8	0.7	<0.5	2.47	0.43	36.09
RX 159494	<4	3	7	5	1.3	0.5	<0.5	1.85	0.33	30.45
RX 159495	<4	4	11	8	1.7	0.9	0.7	2.21	0.39	30.74
RX 159496	7	2	5	<5	1.3	0.5	<0.5	2.44	0.46	30.22
RX 159497	<4	3	8	6	1.5	0.7	<0.5	2.10	0.42	30.55
RX 159498	<4	3	9	<5	1.6	0.6	<0.5	2.19	0.43	32.75
RX 159499	<4	9	20	10	1.6	0.8	0.7	1.17	0.24	28.07
RX 159500	<4	4	12	<5	2.2	0.8	<0.5	2.72	0.44	29.76

Activation Laboratories Ltd. Work Order: 3126 Report: 3120B

Sample description	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MN PPM	SR PPM	CD PPM	BI PPM	V PPM	CA %	P %	MG %	TI %	AL %	K %	Y PPM	BE PPM
RX 109901	116.	4.	99.	0.2	164.	1839.	186.	<0.5	<5.	248.	4.24	0.027	2.49	0.54	8.42	0.25	17.	<0.5
RX 109902	115.	2.	68.	0.2	162.	1358.	30.	<0.5	<5.	252.	6.83	0.027	2.13	0.51	8.27	2.02	17.	<0.5
RX 109903	11.	2.	26.	<0.2	6.	334.	19.	<0.5	<5.	6.	0.55	0.019	0.34	0.13	7.42	3.14	36.	0.8
RX 109904	20.	2.	19.	<0.2	2.	311.	120.	<0.5	<5.	3.	1.16	0.023	0.12	0.16	7.35	0.88	37.	0.5
RX 109905	8.	2.	21.	0.2	17.	348.	35.	<0.5	<5.	12.	0.85	0.033	0.38	0.16	6.71	2.12	32.	0.5
RX 109906	130.	2.	90.	0.3	159.	2059.	109.	1.5	<5.	255.	8.77	0.024	2.49	0.54	8.78	0.23	20.	<0.5
RX 109907	90.	2.	140.	<0.2	153.	2843.	269.	1.3	<5.	242.	7.02	0.025	4.06	0.51	8.23	0.36	20.	1.1
RX 109908	101.	2.	94.	0.2	160.	2026.	129.	0.8	<5.	252.	6.01	0.023	2.27	0.53	8.02	0.09	20.	<0.5
RX 109909	44.	2.	96.	<0.2	228.	1871.	392.	1.1	<5.	143.	5.94	0.099	4.49	0.53	8.05	0.98	18.	<0.5
RX 109910	4.	4.	25.	<0.2	8.	364.	44.	<0.5	<5.	5.	1.19	0.022	0.71	0.13	5.85	2.28	31.	0.5
RX 109911	119.	49.	129.	<0.2	111.	1744.	464.	0.7	<5.	184.	4.68	0.136	3.45	0.60	8.83	0.80	20.	<0.5
RX 109912	52.	3.	105.	0.2	353.	1775.	54.	0.9	<5.	137.	7.01	0.094	5.08	0.43	7.27	0.65	17.	<0.5
RX 109913	790.	11.	33.	0.8	12.	479.	109.	0.7	<5.	5.	0.83	0.030	0.22	0.16	7.44	1.30	38.	0.7
RX 109914	27.	2.	43.	<0.2	2.	738.	52.	<0.5	<5.	2.	3.85	0.013	0.29	0.14	7.87	2.36	42.	<0.5
RX 109915	123.	2.	82.	<0.2	135.	1949.	171.	1.5	<5.	235.	9.96	0.026	3.82	0.49	7.84	0.26	20.	1.0
RX 109916	18.	5.	67.	0.2	14.	713.	27.	<0.5	<5.	16.	0.83	0.028	0.33	0.18	7.36	2.68	37.	<0.5
RX 109917	10.	9.	49.	0.7	8.	674.	77.	<0.5	<5.	3.	1.00	0.032	0.21	0.09	7.55	2.30	40.	<0.5
RX 109918	100.	2.	99.	<0.2	130.	1326.	21.	1.3	<5.	239.	5.44	0.036	4.07	0.45	6.58	0.70	17.	0.9
RX 109919	3.	2.	63.	<0.2	9.	268.	30.	<0.5	<5.	9.	0.56	0.030	0.42	0.15	6.93	2.22	37.	<0.5
RX 109920	8.	8.	32.	0.4	36.	698.	23.	<0.5	<5.	23.	0.64	0.031	0.62	0.18	6.97	2.53	29.	<0.5
RX 109921	19.	11.	27.	0.9	5.	560.	48.	<0.5	<5.	3.	4.00	0.019	0.32	0.16	7.86	2.26	40.	<0.5
RX 109922	18.	6.	22.	0.4	4.	393.	42.	<0.5	<5.	2.	2.65	0.025	0.22	0.14	6.59	1.97	35.	<0.5
RX 109923	18.	12.	27.	0.6	2.	315.	35.	<0.5	<5.	3.	0.54	0.026	0.22	0.16	7.19	2.11	38.	<0.5
RX 109924	16.	9.	23.	0.6	6.	401.	34.	0.6	<5.	4.	0.38	0.034	0.25	0.19	9.09	2.65	47.	0.5
RX 109925	1.	2.	21.	0.2	6.	413.	24.	<0.5	<5.	4.	0.32	0.026	0.28	0.17	7.89	3.06	37.	0.7
RX 109926	31.	9.	27.	0.3	30.	389.	17.	<0.5	<5.	7.	0.36	0.024	0.37	0.13	5.52	2.01	30.	<0.5
RX 109927	1.	2.	49.	0.2	7.	619.	68.	0.7	<5.	2.	1.93	0.024	0.21	0.12	7.08	2.38	40.	0.6
RX 109928	5.	2.	31.	<0.2	3.	419.	49.	<0.5	<5.	2.	2.10	0.026	0.20	0.15	7.71	2.66	40.	0.6
RX 109929	4.	22.	63.	0.2	6.	557.	57.	0.6	<5.	2.	1.21	0.026	0.18	0.15	7.39	2.28	41.	0.7
RX 109930	130.	2.	111.	0.2	170.	1186.	109.	1.7	<5.	274.	4.70	0.023	2.51	0.57	9.04	0.82	20.	<0.5
RX 109931	18.	6.	67.	<0.2	10.	575.	86.	<0.5	<5.	6.	2.20	0.024	0.19	0.13	7.75	2.45	41.	0.7
RX 109932	142.	2.	99.	0.2	165.	1673.	99.	2.2	<5.	268.	8.11	0.027	2.59	0.55	8.94	0.22	22.	<0.5
RX 109933	5.	2.	54.	<0.2	5.	751.	59.	0.6	<5.	7.	2.29	0.018	0.28	0.13	6.74	2.64	40.	0.7
RX 109934	6.	2.	17.	<0.2	7.	380.	26.	<0.5	<5.	2.	1.60	0.001	0.03	0.02	1.00	0.39	6.	<0.5
RX 109935	131.	3	61.	0.3	153.	1137.	25.	1.3	<5.	243.	7.00	0.028	1.69	0.49	7.92	2.91	17.	<0.5

Sample description	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MN PPM	SR PPM	CD PPM	BI PPM	V PPM	CA %	P %	MG %	TI %	AL %	K %	Y PPM	BE PPM
RX 109936	92.	2.	63.	<0.2	126.	912.	84.	0.8	<5.	185.	5.87	0.018	1.82	0.38	6.14	0.17	16.	<0.5
RX 109937	129.	2.	96.	0.2	191.	2139.	142.	1.0	<5.	250.	9.31	0.024	4.49	0.53	8.59	0.40	19.	<0.5
RX 109938	127.	2.	149.	0.2	178.	2157.	169.	1.3	<5.	248.	9.70	0.026	4.18	0.52	8.28	0.37	19.	0.7
RX 109939	109.	2.	111.	0.2	180.	1892.	103.	1.3	<5.	243.	4.85	0.019	4.33	0.53	8.06	0.58	17.	1.0
RX 109940	139.	2.	169.	<0.2	192.	1741.	183.	1.9	<5.	275.	5.33	0.031	3.98	0.61	9.31	0.25	20.	1.6
RX 159491	61.	5.	53.	0.2	42.	1423.	24.	2.0	<5.	141.	4.87	0.019	2.89	0.37	3.77	0.15	13.	<0.5
RX 159492	57.	2.	54.	<0.2	50.	1553.	21.	1.1	<5.	148.	5.70	0.023	3.38	0.38	3.76	0.14	13.	<0.5
RX 159493	127.	2.	104.	<0.2	120.	2199.	111.	2.7	<5.	261.	8.39	0.030	5.45	0.58	7.74	0.34	23.	<0.5
RX 159494	278.	326.	99.	0.3	159.	4384.	194.	1.7	<5.	200.	8.95	0.017	3.30	0.40	7.17	0.07	16.	1.5
RX 159495	280.	23.	81.	0.2	168.	1840.	347.	1.0	<5.	208.	5.26	0.028	3.62	0.44	7.13	0.61	17.	<0.5
RX 159496	105.	2.	157.	<0.2	146.	1422.	31.	1.2	<5.	211.	5.64	0.012	2.98	0.40	6.85	1.45	13.	1.2
RX 159497	92.	3.	69.	<0.2	130.	1464.	149.	0.6	<5.	193.	6.44	0.011	2.64	0.40	6.84	0.20	14.	<0.5
RX 159498	109.	2.	94.	0.3	149.	1067.	75.	1.4	<5.	207.	4.73	0.025	6.24	0.44	6.88	0.47	16.	1.2
RX 159499	64.	8.	44.	0.2	36.	396.	30.	0.5	<5.	85.	12.14	0.019	1.02	0.19	5.18	0.26	8.	<0.5
RX 159500	15.	2.	88.	0.2	103.	1335.	177.	0.8	<5.	219.	4.76	0.025	3.51	0.52	5.89	0.14	20.	<0.5

APPENDIX V

SAMPLE DESCRIPTIONS

INCO LIMITED

TRAVERSE NUMBER _____ PROJECT Macmurchy Project GEOLOGIST(S) Manson, Clark, [redacted]

N.T.S. 41-P-11 AREA Macmurchy Township, Ont DATE August 28 & 29, 1991

SAMPLE NUMBER	SAMPLE TYPE: RX Rock, Talus	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS: PPB Au	PPM Cu	PPM Zn	PPM Pb	PPM Ni	PPM Ag
RX 109901	Rock		Grab		5705-055E	Vfg-aphanitic, light gray-green, massive to vaguely flow banded. Scattered feldspar phenocrysts, weathers tan-light green. Trace pyrite. Andesite	<5	116	99	4	164	0.2
RX 109902	Rock		Grab		6005-050E	As Above at RX109901 Andesite	<5	115	68	2	162	0.2
RX 109903	Rock		Grab		6035-080E	Vfg-aphanitic, light gray, massive, no quartz eyes. Rhyolite.	9	11	26	2	6	<0.2
RX 109904	Rock		Grab		5955-202E	Vfg-aphanitic, light gray, massive to rubbly flow texture, some flow bx, no quartz eyes observed. Rhyolite	<5	20	19	2	2	<0.2
RX 109905	Rock		Grab		6005-246E	As above at RX109904, weather light tan. Rhyolite	27	8	21	2	17	0.2
RX 109906	Rock		Grab		7205-303E	Vfg, dark green, weathers light brown-light green. Massive to some vague pillowing. Andesite	11	130	90	2	159	0.3
RX 109907	Rock		Grab		7005-295E	Vfg, dark green, weathers green, massive flow texture, possible vague flow banding. Basalt.	<5	90	140	2	153	<0.2
RX 109908	Rock		Grab		6505-350E	As above at RX109906. Andesite	14	101	94	2	160	0.2
RX 109909	Rock		Grab		6005-381E	fg, green, massive, small area of soil covered (thin) outcrop. Look similar to RX109907. Basalt	<5	44	96	2	228	<0.2
RX 109910	Rock		Grab		6005-466E	Vfg, light gray-green, massive-rubbly textured flow, no qtz eyes, rare speck py. Rhyo-Dct	5	4	35	4	8	<0.2

INCO LIMITED

TRAVERSE NUMBER _____ PROJECT Macmurchy Project GEOLOGIST(S) Mason, Clark, [redacted]

N.T.S. 41-P-11 AREA Macmurchy Township, Ont DATE August 28 & 29, 1991

SAMPLE NUMBER	SAMPLE TYPE: RX Rock, Talus	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton): PPB Au	PPM Cu	PPM Zn	PPM Pb	PPM Ni	PPM Ag
RX109911	Rock		Grab		550S-350E	As above at RX109906. Andesite	7	119	129	49	111	<0.2
RX109912	Rock		Grab		503S-292E	As above at RX109907 Basalt	<5	52	105	3	353	0.2
RX109913	Rock		Grab		502S-187E	As above at RX109904, strongly autobrecciated, ie very viscous flow. trace-1% py Rhyolite	<5	790	33	11	12	0.8
RX109914	Rock		Grab		498S-102E	As above at RX109904, Rhyolite	<5	27	43	2	2	<0.2
RX109915	Rock		Grab		500S-060E	vfg, green-dark green, massive & vaguely flow banded. weathers light brown. Andesite	13	123	82	2	135	<0.2
RX109916	Rock		Grab		125S-198E	vfg massive, light yellow green, weathers slightly rusty. Minor calcite veinlets. trace pyrite Rhyolite	552	18	67	5	14	0.2
RX109917	Rock		Grab		153S-252E	As above at RX109916, numerous hairline fractures qtz-carb filled. Trace-1% as blebs in the qtz-carb veinlets	1290	10	49	9	8	0.7
RX109918	Rock		Grab		412S-598E	fg, massive, green, weathers gray, numerous hairline fractures filled by carb-qtz, Tr-1% sulf in veinlets Basalt	<5	100	99	2	130	<0.2
RX109919	Rock		Grab		525S-527E	fg, massive, pale yellow-green, with light gray-brown, numerous black hairline fractures (chlorite?) Rhy.-Dct	25	3	63	2	9	<0.2

INCO LIMITED

TRAVERSE NUMBER _____ PROJECT Macmurchy Project GEOLOGIST(S) Mason, Clark, [redacted]

N.T.S. 41-P-11 AREA Macmurchy Township Ont DATE August 28 & 29, 1991

SAMPLE NUMBER	SAMPLE TYPE: RX Rock, Talus	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton): PPB Au	PPM Cu	PPM Zn	PPM Pb	PPM Ni	PPM Ag
RX109920	Rock		Chip	50cm	Trench 1	Sampled along south wall across 10cm wide (graphitic?) black shear, very fissile, weakly rusty adjacent shear Rhyo-Dacite	48	8	32	8	36	0.4
RX109921	Rock		grab		Trench 1	fg-massive, silicified(?), pale gray-green weathers rusty. 3-5% pyrite locally as blebs euhedral pyrite to 5mm Rhyo-Dacite	5	19	27	11	5	0.9
RX109922	Rock		Chip	1metre	Trench 1	Across bottom of trench. fg-massive light gray-green, moderately silicified(?) 2-3% fg disseminated pyrite Rhyo-Dacite	<5	18	22	6	4	0.4
RX109923	Rock		Composite	2metres	Trench 1	As above at RX109922, sample of composite of chips along North wall. Rhyo-Dacite	7	18	27	12	2	0.6
RX109924	Rock		grab		Trench 1	As above at RX109922, 1-2% pyrite Rhyo-Dacite	12	16	23	9	6	0.6
RX109925	Rock		Chip	60cm	Trench 1	As above at RX109922 Trace pyrite Rhyo-Dacite	6	1	21	2	6	0.2
RX109926	Rock		grab		Trench 2	dark gray, fg, possibly silicified breccia. 5-7% pyrite along fractures Rhyo-Dacite	7	31	27	9	30	0.3

INCO LIMITED

TRAVERSE NUMBER _____ PROJECT Macmurchy Project GEOLOGIST(S) Manson, Clark, Osmani

N.T.S. 41-P-11 AREA Macmurchy Township, Ont DATE August 28 & 29, 1991

SAMPLE NUMBER	SAMPLE TYPE: RX Rock, Talus	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton): PPB Au	PPM Cu	PPM Zn	PPM Pb	PPM Ni	PPM Ag
RX109927	Rock		grab		305S-087E	Vfg, light gray-green, massive, rubbly viscous flow texture. Rock is strongly fractured and friable. Disseminated pyrite up to 1%, rusty along fractures. Rhyolite	9	1	49	2	7	0.2
RX109928	Rock		grab		296S-346E	As above at RX109927, some light green spots (feldspar phenocrysts?) to 2.5mm traces pyrite. Rhyolite	<5	5	31	2	3	<0.2
RX109929	Rock		grab		300S-400E	vfg, light green (apple), reddish along fractures. Rubbly, viscous flow Texture, friable/blocky fracturing. trace pyrite Rhyolite	<5	4	63	22	6	0.2
RX109930	Rock		grab		200S-050E	fg-vfg massive flow, rock has porphyritic texture with laths fsp up to 1mm long. Some dark patches along fractures. Trace vfg pyrite. Rock is grey and weathers green-light grey. Andesite	<5	130	111	2	170	0.2
RX109931	Rock		grab		100S-107E	Fg massive, light green-grey, rubbly viscous flow texture, blocky fractures trace pyrite Rhyolite	6	18	67	6	10	<0.2
RX109932	Rock		grab		570S-053E	fg, massive, green, local vague pillows Trace - 2% pyrite Andesite	<5	142	99	2	165	0.2
RX109933	Rock		grab		555S-112E	vfg, massive, pale yellow-green, fractured with qtz-carb in fracture. Up to 1% pyrite along fracture. Rhyolite	8	5	54	2	5	<0.2

INCO LIMITED

TRAVERSE NUMBER _____ PROJECT Macmurchy Project GEOLOGIST(S) Marson, Clark, [redacted]amane

N.T.S. 41-P-11 AREA Macmurchy Township, Ont DATE August 28 & 29, 1991

SAMPLE NUMBER	SAMPLE TYPE: RX Rock, Talus	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton): PPB Au	PPM Cu	PPM Zn	PPM Pb	PPM Ni	PPM Ag
RX109934	Rock		Grab		5305-110E	Quartz vein, white, massive with minor rusty spot. The vein is 10 cm wide exposed for 1 metre, contains rare speck specularite(?) Vein strikes 040, dips >85 SE Sample includes some rhyolite wall rock	<5	6	17	2	7	<0.2
RX109935	Rock		grab		200S-070W	vfg, light green-green, massive flow texture. Andesite	<5	191	61	3	153	0.3
RX109936	Rock		grab		175S-002E	As above at RX109935 Andesite	<5	92	63	2	126	<0.2
RX109937	Rock		grab		100S-060W	fg-vfg as above at RX109935 Andesite	<5	129	96	2	191	0.2
RX109938	Rock		grab		115S-090W	fg, green, massive to moderately sheared with 2-5% qtz-calcite veinlets along shear planes Basalt	<5	127	149	2	178	0.2
RX109939	Rock		grab		285S-005E	As above at RX109935 Andesite	<5	109	111	2	180	0.2
RX109940	Rock		grab		415S-025E	As above at RX109935 Andesite	<5	139	169	2	192	<0.2

INCO LIMITED

TRAVERSE NUMBER _____ PROJECT Macmurchy Project GEOLOGIST(S) Morrow, Clark, Damaso

N.T.S. 41-P-11 AREA Macmurchy Township, Ont DATE August 28 & 29, 1991

SAMPLE NUMBER	SAMPLE TYPE: RX Rock, Talus	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and / or U.T.M.	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton): PPB Au	PPm Cu	PPm Zn	PPm Pb	PPm Ni	PPm Ag
RX159491	Rock		grab		590S-220W	fg, dk green-black, subtly texture (flow top breccia?). Cut in cut by numerous veinlets calcite. Trace pyrite as disseminated grains. Basalt	<5	61	53	5	42	0.2
RX159492	Rock		grab		675S-240W	fg, dk green, massive-vesicular. 2-3% calcite filled vesicles. Trace pyrrhotite Basalt	<5	57	54	2	50	<0.2
RX159493	Rock		grab		700S-075W	as above at RX159492, locally pillowed tops east. no sulphide observed Basalt	<5	127	104	2	120	<0.2
RX159494	Rock		grab		525S-360W	fg, dk green, strongly foliated and brecciated. Cut by numerous calcite veinlets to 3 cm and healing breccia fragments. no sulf Basalt	27	278	99	326	159	0.3
RX159495	Rock		grab		400S-330W	As above at RX159494 Basalt	10	280	81	23	168	0.2
RX159496	Rock		grab		425S-035W	fg, dark green, massive-wkly sheared massive flow texture Basalt	32	105	157	2	146	<0.2
RX159497	Rock		grab		290S-050W	fg, green, massive to local vesic pillow. no sulf Andesite	12	92	69	3	180	<0.2
RX159498	Rock		grab		290S-110W	~~Andesite~~ fg, dk green, massive flow no sulf Basalt	<5	109	94	2	149	0.3
RX159499	Rock		grab		300S-190W	fg, green, moderatly sheared, brecciated, bleeded with gray-milky quartz. Near axis of JESS LAKE fault Basalt	<5	64	44	8	36	0.2

INCO LIMITED

TRAVERSE NUMBER _____ PROJECT Macmurchy Project GEOLOGIST(S) Marsen, Clark, [redacted]amane,

N.T.S. 41-P-11 AREA Macmurchy Township Ont DATE August 28 & 29, 1991

SAMPLE NUMBER	SAMPLE TYPE: RX Rock, Talus	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton): PPB Au	PPM Cu	PPM Zn	PPM Pb	PPM Ni	PPM Ag
RX159500	Rock		Grab		300S-250W	Strongly sheared fg chloritic volcanic rock, mafic, abundant epidote, 1-2% garnet(?) trace py, numerous qtz-calcite stringers, along west flank of JESS LAKE fault Basalt	<5	15	88	2	103	0.2

APPENDIX VI

GEOMETRICS MODEL G-816 MAGNETOMETER INSTRUMENT SPECIFICATIONS

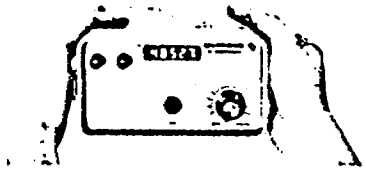
geoMetrics

MODEL G 816
PORTABLE PROTON MAGNETOMETER

914 Industrial Avenue
Palo Alto, California 94303
(415) 321-7610

"Hands-free" Back Pack Sensor

Based upon the principle of nuclear precession (proton) the G-816 offers absolute drift-free measurements of the total field directly in gammas. (The proton precession method is the officially recognized standard for measurement of the earth's magnetic field.) Operation is worldwide with one gamma sensitivity and repeatability maintained throughout the range. There is no temperature drift, no set-up or leveling required, and no adjustment for orientation, field polarity, or arbitrary reference levels. Operation is very simple with no prior training required. Only 6 seconds are required to obtain a measurement which is always correct to one gamma, regardless of operator experience. Only the Proton Magnetometer offers such repeatability—an important consideration even for 10 gamma survey resolution.



Complete Field Portable System

The Model G-816 comes complete, ready for portable field operation and consists of:

1. Electronics console with internally mounted and easily replaced "D" cell battery pack.
2. Proton sensor and signal cable for attachment to carrying harness or staff.
3. Adjustable carrying harness.
4. 8 foot collapsible staff.
5. Instruction manual, complete set of spare batteries, reusable shipping container.

All magnetometers and parts are covered by a one year warranty beginning with the date of receipt but not to exceed fifteen months from the shipping date.

SPECIFICATIONS

Sensitivity:	±1 gamma throughout range
Range:	20,000 to 90,000 gammas (worldwide)
Tuning:	Multi-position switch with signal amplitude indicator light on display
Gradient Tolerance:	Exceeds 150 gammas/ft
Sampling Rate:	Manual push-button, one reading each 6 seconds
Output:	5 digit numeric display with readout directly in gammas
Power Requirements:	Twelve self-contained 1.5 volt "D" cell universally available flashlight-type batteries. Charge state or replacement signified by flashing indicator light on display.

Battery Type	Number of Readings
Alkaline	over 10,000
Premium Carbon Zinc	over 4,000
Standard Flashlight	over 1,500

NOTE: Battery life decreases with temperature

Temperature Range:	Console and sensor:	-40° to +85°C
	Battery Pack	0° to +50°C (limited use to -15°C; lower temperature operation—optional)
Accuracy (Total Field):	±1 gamma through 0° to 50°C temperature range	
Sensor:	High signal, noise cancelling, interchangeably mounted on separate staff or attached to carrying harness	
Size:	Console: 3.5 x 7 x 10.5 inches (9 x 18 x 27 cm) Sensor: 4.5 x 6 inches (11 x 15 cm) Staff: 1 inch diameter x 8 ft length (3 cm x 2.44 m)	

Weight:

	Lbs.	Kgs.
Console (w/batteries):	5.5	2.4
Sensor & signal cable:	4	1.8
Aluminum staff:	2	0.9
	11.5	5.1

geoMetrics 914 INDUSTRIAL AVENUE PALO ALTO, CALIFORNIA 94303 TEL. (415) 321-7611 CABLE: GEOMETRICS TELEX: 345525

EXPLORANIUM DIVISION • GEOMETRICS SERVICES (CANADA) LTD.
48 ALNESS STREET, DOWNSVIEW (TORONTO) ONTARIO CANADA • TELEPHONE (416) 638-6660
AIRBORNE GEOPHYSICS DIVISION • GEOMETRICS INTERNATIONAL CORP.
80 ALFRED STREET, MILSON'S POINT, SYDNEY NSW 2061 • TELEPHONE 929-9947

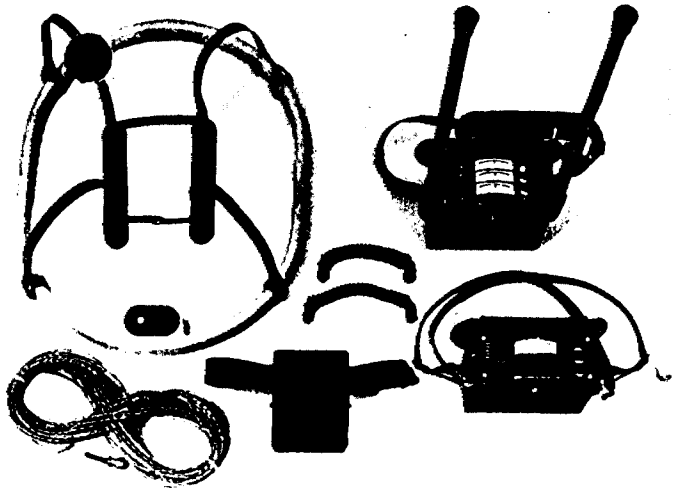
APPENDIX VII

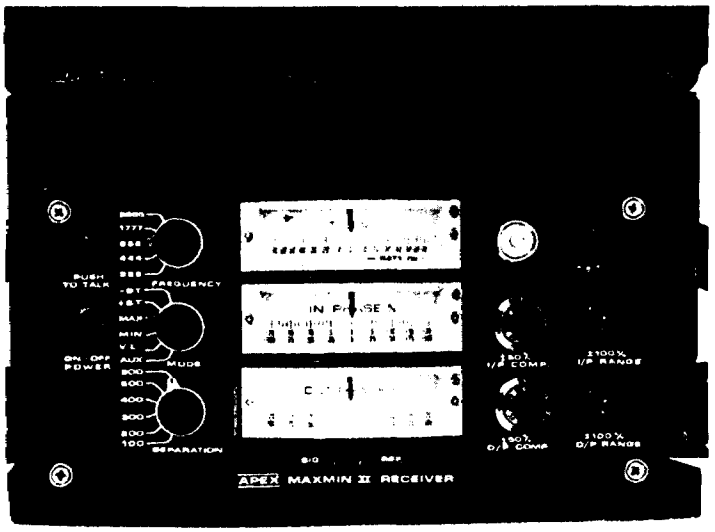
APEX PARAMETRICS MaxMin II
INSTRUMENT SPECIFICATIONS

APEX MAXMIN II PORTABLE EM

- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180 m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.

NOW ALSO ±4% QUADRATURE FULL SCALE.





SPECIFICATIONS :

Frequencies: 222, 444, 888, 1777 and 3555 Hz.

Modes of Operation:
- MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with reference cable.
- MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.
- V.L. : Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coil Separations: 25, 50, 100, 150, 200 & 250m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).
Coil separations in V.L. mode not restricted to fixed values.

Parameters Read:
- In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
- Tilt-angle of the total field in V.L. mode.

Readouts:
- Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90mm edgewise meters in V.L. mode.

Scale Ranges:
In-Phase: ±20%, ±100% by push-button switch.
Quadrature: ±20%, ±100% by push-button switch.
Tilt: ±75% slope.
Null (V.L.): Sensitivity adjustable by separation switch.

NOW ALSO ±4% QUADRATURE FULL SCALE.

Readability: In-Phase and Quadrature: 0.25% to 0.5% ; Tilt: 1%.

Repeatability: ±0.25% to ±1% normally, depending on conditions, frequencies and coil separation used.

Transmitter Output:
- 222 Hz : 220 Atm²
- 444 Hz : 200 Atm²
- 888 Hz : 120 Atm²
- 1777 Hz : 60 Atm²
- 3555 Hz : 30 Atm²

Receiver Batteries: 9V trans. radio type batteries (4). Life: approx. 35 hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.

Transmitter Batteries: 12V 6Ah Gel-type rechargeable battery. (Charger supplied).

Reference Cable: Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

Voice Link: Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.

Indicator Lights: Built-in signal and reference warning lights to indicate erroneous readings.

Temperature Range: -40°C to +60°C (-40°F to +140°F).

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping Weight: Typically 60kg (135 lbs.), depending on quantities of reference cable and batteries included. Shipped in two field/shipping cases.

Specifications subject to change without notification.

APEX PARAMETRICS LIMITED
200 STEELCASE RD. E., MARKHAM, ONT., CANADA, L3R 1G2

Phone: (416) 495-1612 Cables: APEXPARA TORONTO Telex: [illegible] NOTE OUR NEW TELEX NUMBER: 06-966775 APEXPARA MKHM

Ministry of Northern Development and Mines
Ontario

M.L.

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

DOCUMENT No.
W9180 • 05089

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Director, Mining Lands Branch, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P

41P11NE0444 2.14429 MACMURCHY

900

2.14429

Instructions:

- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s): Inco Limited		Client No.: 147543
Address: Hwy. 17 West, Copper Cliff, Ontario P0M 1N0		Telephone No.: 705-682-8439
Mining Division: Larder Lake	Township/Area: MacMurchy	M or G Plan No.: M-842
Dates Work Performed — From: September 5, 1991	To: September 16, 1991	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
✓	Assays	INAA & ICP
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 909.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Activation Laboratories Ltd.	1336 Sandhill Drive, Ancaster, Ontario L9G 4V5

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: Nov. 12,1991	Recorded Holder or Agent (Signature): I O Mccaskill

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
Ian McCaskill, c/o Inco Exploration and Technical Services, Inc., Copper Cliff, Ontario P0M 1N0

Telepone No.	Date	Certified By (Signature)
705-682-8439	November 12, 1991	I O Mccaskill

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$909.00 (banked)	Nov. 14/91		RECEIVED LARDER LAKE MINING DIVISION NOV 14 1991 TIME 10:31 a.m.
	Deemed Approval Date R/S: FEBRUARY 12, 1992	Date Approved	
	Date Notice for Amendments Sent		

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
[illegible]	L 1146349	1	454.50	0	0	454.50
	L 1146354	1	272.70	0	0	272.70
	L 1146359	1	181.80	0	0	181.80
	3		909.00	0	0	909.00
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☒ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date Nov. 12/1991

0241 (03/91)

Ministry of Northern Development and Mines

Ontario

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W9180-05089

2.14429

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la **Loi sur les mines** et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Assays	909.00	909.00
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		909.00

2. Indirect Costs/Coûts indirects

** **Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) **Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles**		909.00

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Agent for Inco Limited (Recorded Holder, Agent, Position in Company) I am authorized

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé

à faire cette attestation.

Signature [signature]

Date Nov. 12/1991

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Ministry of Northern Development and Mines
Ontario

M.L.

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
DOCUMENT No.
W9180 • 05088

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.14429

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)		Client No.
Inco Limited		147543
Address		**Telephone No.**
Field Exploration Dept., Hwy. 17, West, Copper Cliff, Ontario P0M 1N0		705 682-8439
Mining Division	**Township/Area**	**M or G Plan No.**
Larder Lake	MacMurchy	M-842
Dates Work Performed From: July 15, 1991	To: August 28, 1991	

Work Performed (Check One Work Group Only)

	Work Group	Type
X	Geotechnical Survey	Geology, Magnetic, HLEM, Linecutting
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

RECEIVED
JAN 23 1992
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ $9,508.33

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
G.J. Gereghty	10 Godfrey Street, Copper Cliff, Ontario P0M 1N0
W.O. Manson (Author)	19 Market Street, Copper Cliff, Ontario P0M 1N0
Inco Exploration & Technical Services, Inc.	Copper Cliff, Ontario P0M 1N0

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

	Date	Recorded Holder or Agent (Signature)
I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	November 12, 1991	

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
Ian McCaskill c/o Inco Exploration and technical Services, Inc., Copper Cliff, Ontario

Telepone No.	Date	Certified By (Signature)
705 682-8439	November 12, 1991	

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$8400.00 1108.33 (banked)	Nov. 14, 1991		RECEIVED LARDER LAKE MINING DIVISION NOV 14 1991
	Deemed Approval Date RJS February 12, 1992	Date Approved	
	Date Notice for Amendments Sent		TIME 10:37 a.m.

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	L 1146349	1	$3,169.44	$2,800.00	----	$369.44
2.1.14429	L 1146354	1	$3,169.44	$2,800.00	----	$369.44
	L 1146359	1	$3,169.45	$2,800.00	----	$369.45
	3		$9,508.33	B400.00 * ~~$7,200.00~~		1,108.37 * ~~$2,308.33~~
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

Called Inco Ltd Ian McCaskill on Jan 22/92 and

0241 (03/91)

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

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2. ☒ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date November 12, 19[illegible]

Ministry of Northern Development and Mines

Ontario

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W9130 05088

2.14429

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

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1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	3,762.00	
	Field Supervision Supervision sur le terrain	1,254.00	5016.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Linecutting	1,677.23	
	Mag	481.50	
	HLEM	749.00	2907.73
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		7923.73

2. Indirect Costs/Coûts indirects

** **Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck rentals	1274.00	
			1274.00
Food and Lodging Nourriture et hébergement	Motel /Restaurant		976.00
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		2250.00
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		1584.60
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / **Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)**		9508.33

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
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Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
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Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

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Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé

à faire cette attestation.

Signature

Date Nov. 12, 1991

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Mining Lands Branch
Geoscience Approvals Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Toll Free: 1-800-465-3880
Telephone: (705) 670-7264
Fax: (705) 670-7262

January 27, 1992

Our File: 2.14429
Transaction #W9180.05088
W9180.05089

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir/Madam:

SUBJECT: APPROVAL OF ASSESSMENT WORK SUBMITTED ON MINING CLAIMS L.1146349 ET AL IN MACMURCHY TOWNSHIP

The assessment work credits for Assaying Section 17, Geological Survey Section 12, and Geophysical (Magnetic and Electromagnetic) Survey Section 14 of the Mining Act Regulations have been approved as of January 23, 1992.

The credits listed on the original report of work have been approved.

Please indicate on your records.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

LJ/jl
Enclosures:

cc: Assessment Files Office
Toronto, Ontario

Resident Geologist
Kirkland Lake, Ontario

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

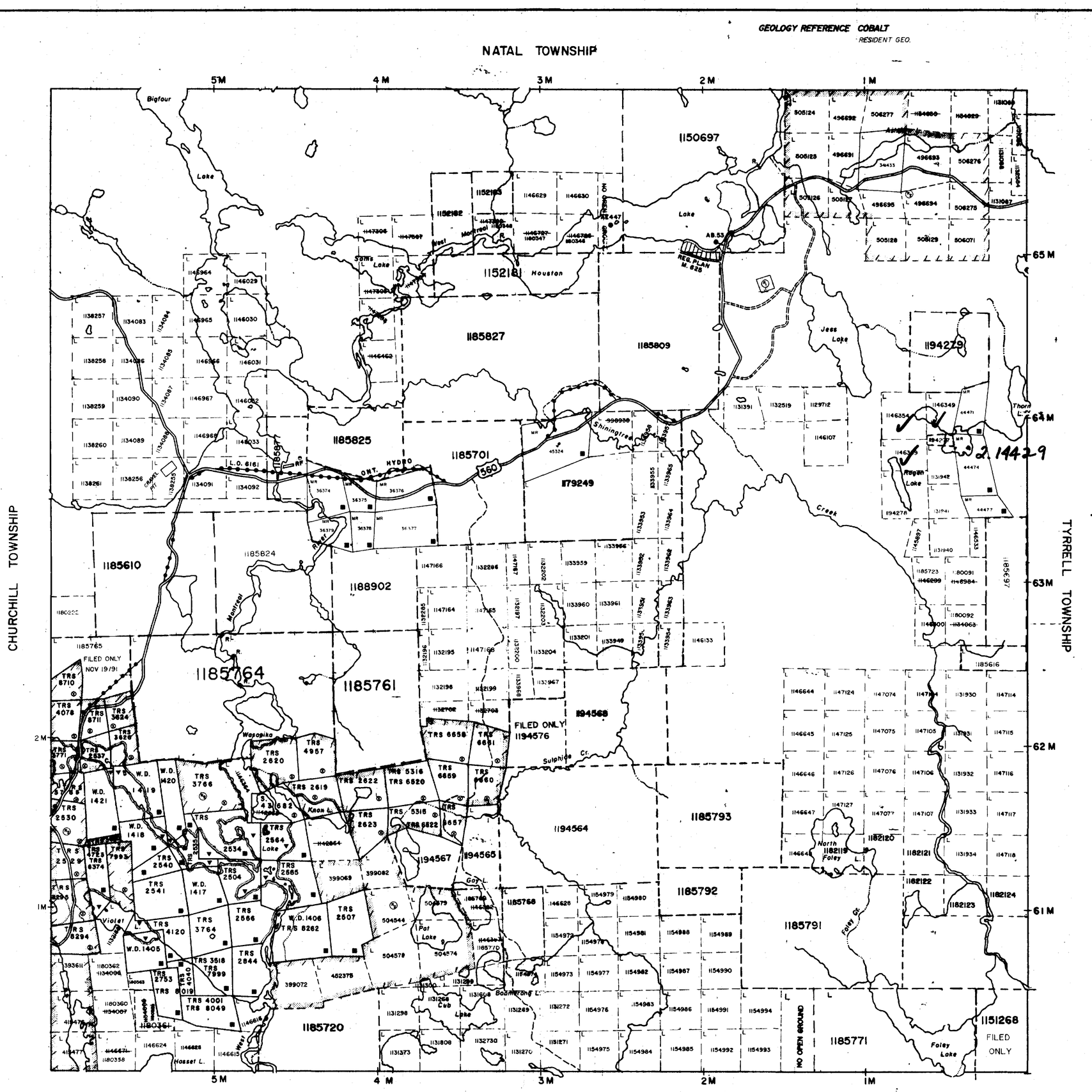
Description	Order No.	Date	Disposition	File
SEC 43/70	W 86/73	NOV19/76	S.R.O.	188517
SEC 36/80	W-L2-90NER	APR.3/90	M+S	

NOTES

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP/AREA FALLS WITHIN THE SHININGTREE MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT

P.O. BOX 129
LOW AVENUE
GOGAMA, ONTARIO
P0M-1W0
705-894-2000



CIRCULATED MARCH 5 1991.

COPY OF THIS MYLAR ARCHIVED SEPT 9, 1991

REMOVED FROM CIRCULATION AND ARCHIVED ON JAN 16/92

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	■
" , MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊕
CANCELLED	⊗
SAND & GRAVEL	⊕

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

SCALE : 1:20000

METRES 500 0 1000
1640 0 2640 MILES

NOTES

MINING LEASES shown thus (X) have been terminated but NOT THROWN OPEN FOR STAKING.

" TWP. OPENED TO STAKING ORDER O ___ML.O.I.___90 EFFECTIVE APRIL 3,1990,7:00AM EST."

2.14429

TOWNSHIP SUBJECT TO FORESTRY OPERATIONS

DATE OF ISSUE
JAN 28 1992
LARDER LAKE MINING RECORDER'S OFFICE

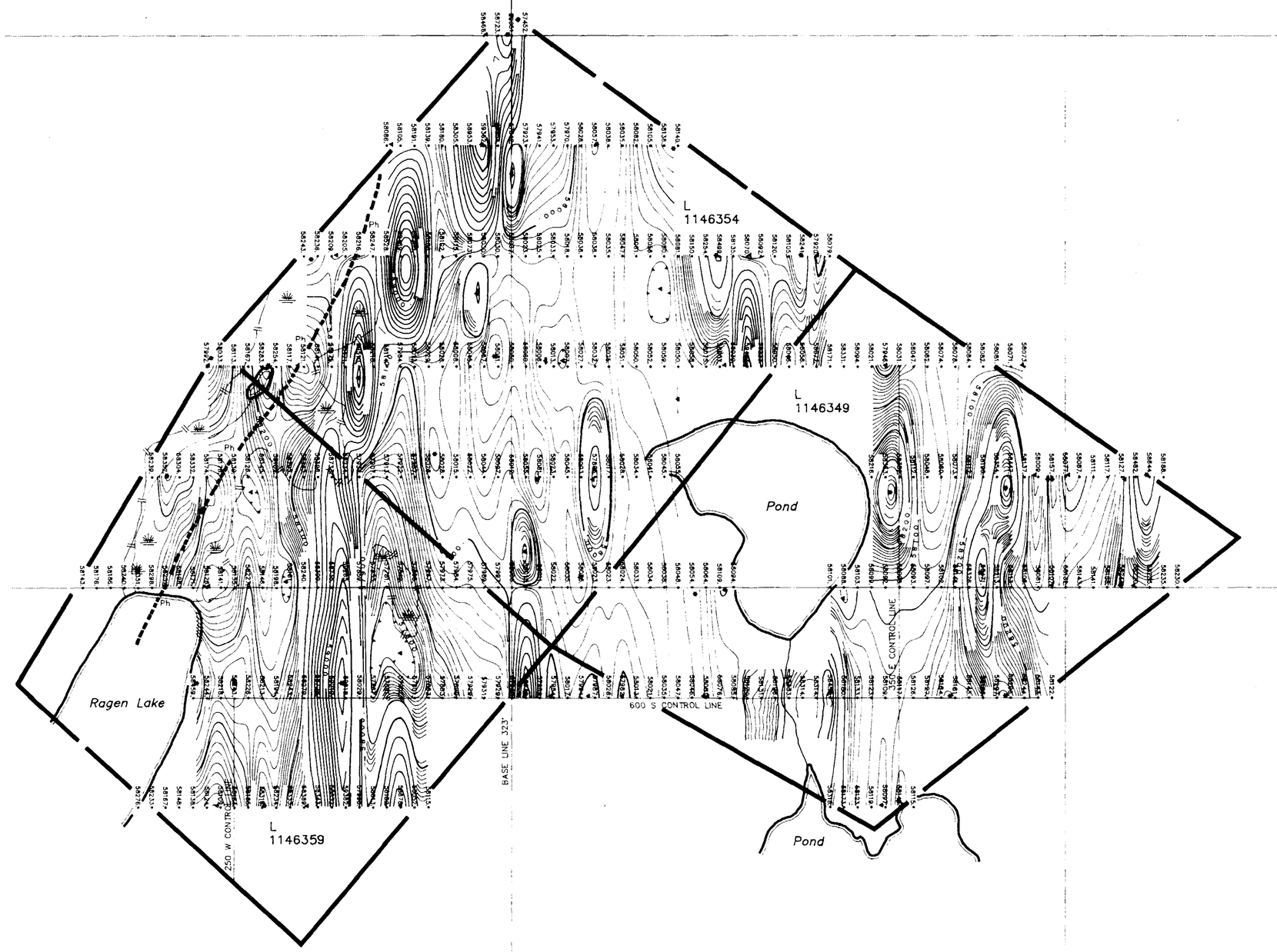
TOWNSHIP
MACMURCHY

M.N.R. ADMINISTRATIVE DISTRICT
GOGAMA
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
SUDBURY

Ontario
Ministry of Natural Resources
Ministry of Northern Development and Mines

Date APRIL 1990
Number G-988

MACMURCHY MAG.



LEGEND

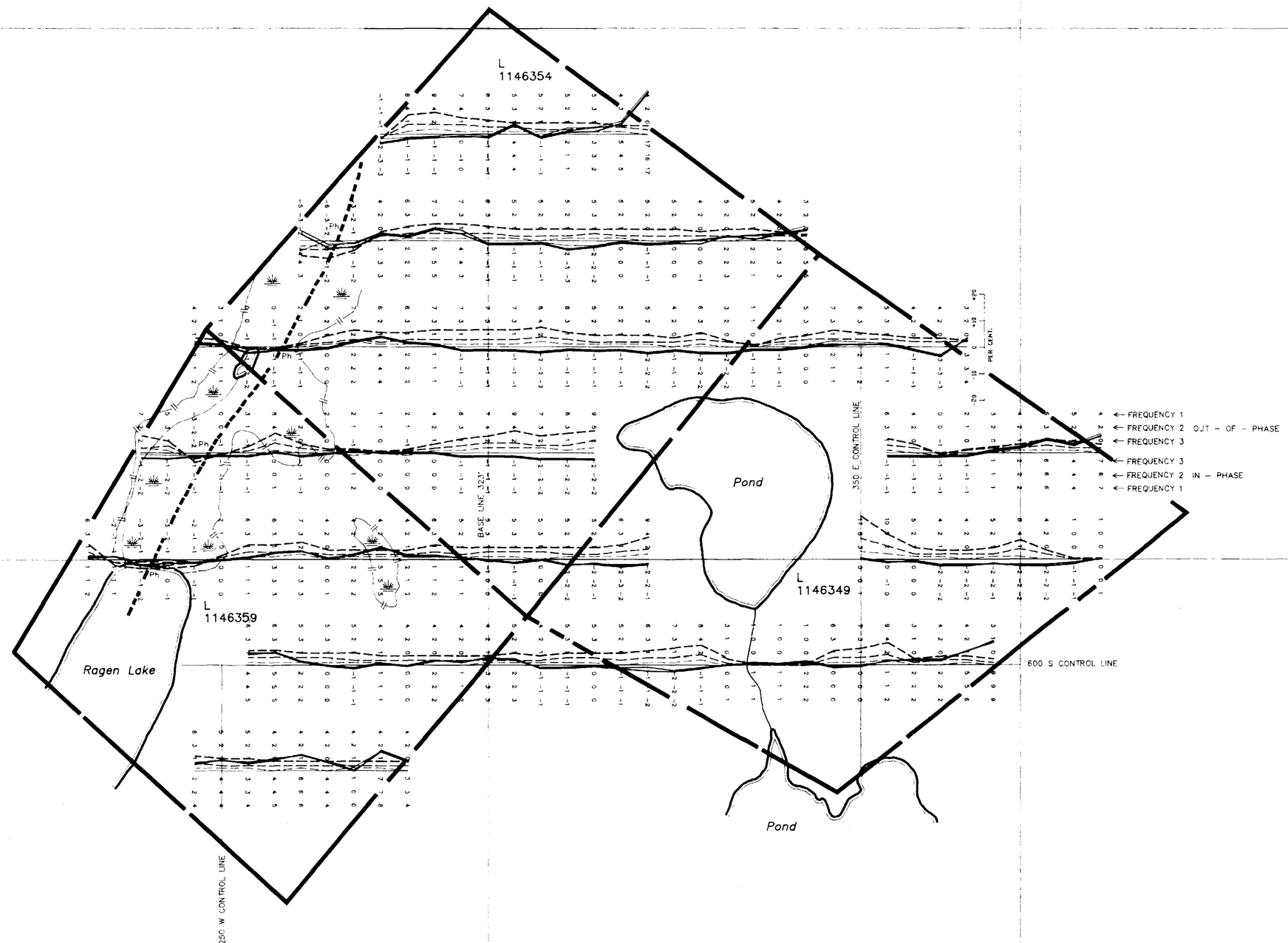
STATION SPACING: 12.5 m
TOTAL FIELD READING IN nT: 59680
CONTOUR LEVELS: 10nT, 100nT, 1000nT
SMOOTHING FILTER APPLIED
CONDUCTOR (HLEM)

0 50 100 150 200
METRES

INCO EXPLORATION AND TECHNICAL SERVICES INC.
Copper Cliff, Ontario
P0M 1N0

Project: MACMURCHY	Area: MACMURCHY TP., ONTARIO		
MAGNETIC SURVEY		SHEET 1 of 1	FIGURE
Supervisor: J. PERRY	Instrument: GEOMETRICS PROTON	Survey date: 07/91	
Compiled by: T. LANG	Drawn by: W.E. MARSAW	Date drawn: 08/08/91	Revised:
Scale: 1:2500	File: MACMAG.DWG	N.T.S. 41P/11	

MACMURCHY (HLEM)



500 W | 00 | 500 E | 1000 E

500 S

1000 S

LEGEND

FREQUENCY 1: 3555 Hz	IN-PHASE ——— OUT-OF-PHASE - - - -
FREQUENCY 2: 1777 Hz	——— - - - -
FREQUENCY 3: 888 Hz	——— - - - -
PROFILE SCALE: 1cm=10%	
CONDUCTOR STRENGTH	STRONG — MEDIUM — WEAK — VERY WEAK OR PHASE ONLY
CONDUCTOR PRIORITY	③
PHASE ANOMALY	Ph
COIL CONFIGURATION	100m — TX — RX — PLOT POINT

TRAVERSE DIRECTION E-W (GRID)
STATION INTERVAL: 25m

2.14429

AUTHOR(S) OF REPORT:
W. O. MANSON

0 50 100 150 200
METRES

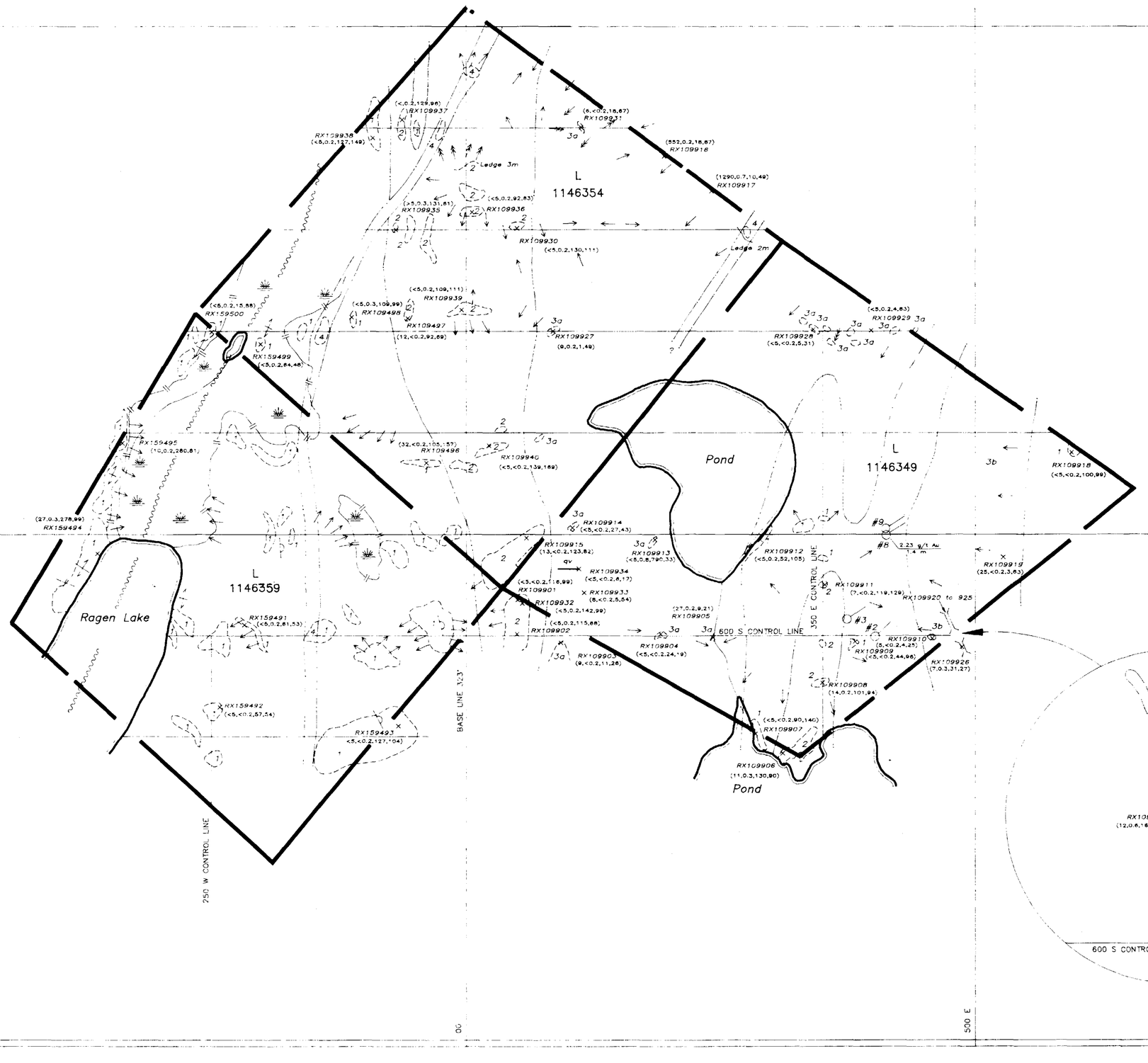
INCO EXPLORATION AND TECHNICAL SERVICES INC.

Copper Cliff, Ontario
P0M 1N0

Project: MACMURCHY		Area: MACMURCHY TP., ONTARIO	
ELECTROMAGNETIC SURVEY		SHEET 1 of 1	FIGURE
Supervisor: J. PERRY	Instrument: MAX – MIN II	Survey date: 07/91	
Compiled by: G.J.GEREGHTY/T.LANG	Drawn by: W.E. MARSAW	Date drawn: 08/13/91	Revised:
Scale: 1:2500	File: MACEM.DWG	N.T.S. 41P/11	

41P11NE0444 2.14429 MACMURCHY

MACGEOL.DWG



LEGEND

INTRUSIVE ROCKS

4 — Diabase: Medium grained, massive dykes, magnetic

META VOLCANICS
Calc—Alkaline Affinity

3 — 3a Rhyolite: Massive flows and flow breccia
3b Rhyo—Dacite: Massive, rubbly textured flows and breccia

2 — Andesite: Massive to weakly flow banded

Tholeiitic Affinity

1 — Basalt: Massive and pillowed flows, local flow breccia.

Quartz Veins

SYMBOLS

Outcrop

Geological contact: observed,inferred.

RX109918 — Sample location and number

(<5,<0.2,24,19) — (Au ppb, Ag ppm, Cu ppm, Zn ppm)

Strike and dip of foliation.

Trench in bedrock.

Fault

Pillows

Slope: gradual, moderate, steep

#8 — Foreign Drill Hole (Madsen Red Lake) Location Approximate

2.14429

AUTHOR(S) OF REPORT:
W. O. MANSON

0 50 100 150 200
METRES

INCO EXPLORATION AND TECHNICAL SERVICES INC.
Copper Cliff, Ontario
P0M 1N0

Project: MACMURCHY		Area: MACMURCHY TP., ONTARIO	
GEOLOGICAL SURVEY		SHEET 1 of 1	FIGURE
Supervisor: J. PERRY	Instrument:	Survey date: 07/91	
Compiled by: W.O.MANSON	Drawn by: D.W. WALSH	Date drawn: 07/10/91	Revised:
Scale: 1:2500	File: MACGEOL.DWG	N.T.S. 41P/11	